

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20040184535"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 07:21
L2	1	"20040184535" and pre\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:38
L3	6	compressed adj video same convert\$6 same low adj resolution same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:10
L4	11	compressed adj video same convert\$6 same low same high same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:12
L5	15	compressed adj video same convert\$6 same standard same (HD or high) same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:15
L6	231	tiling same high same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:18
L7	195	tiling same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:16
L8	4	tiling same high adj resolution same low adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:17
L9	2	tiling same convert\$6 same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:17

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L10	4	tiling same high same resolution same (compressed or encoded or coded) same (video or signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:20
L11	15	tiling and high same resolution same (compressed or encoded or coded) same (video or signal) same convert\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:22
L12	0	tiling and high same resolution same (compressed or encoded or coded) same (video or signal) same (upconvert\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:23
L13	0	tiling and high same resolution same (compressed or encoded or coded) same (video or signal) same (upscal\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:25
L14	279	(compressEd or encoded or coded) adj video same convert\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:26
L15	150	(compressEd or encoded or coded) adj video same convert\$6 same resolution same display\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:35
L16	15	(compressEd or encoded or coded) adj video same convert\$6 same resolution same combin\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:27
L17	108	til\$6 same convert\$6 same resolution same display\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:36
L18	118	til\$6 same convert\$6 same resolution same high and low	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:36
L19	70	til\$6 same convert\$6 same resolution same (high and low)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:36

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L20	0	"20040184535" and wavelet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:44
L21	69563	resolution same conver\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:45
L22	2	"2001136527"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:49
L23	2	"2001136527" and resolution and (compressed or encoded or coded)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:47
L24	1	"2001136527" and conver\$6 same resolution and (compressed or encoded or coded)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 09:47
L25	1	"6683997".pn. and conver\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:01
L26	364	(HD or high adj definition) same display\$6 same (conver\$6) same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:30
L27	25	(HD or high adj definition) same display\$6 same (conver\$6) same resolution same combin\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:33
L28	0	"6414998".pn. and conver\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:33
L29	0	"6414998".pn. and conver\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:34

EAST Search History

L30	2	"6414998".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:40
L31	286	Kuchta.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:40
L32	9	Kuchta.in. and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:42
L33	35	Kuchta.in. and compress\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:42
L34	5	32 and 33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:50
L35	0	tiling same (compress\$6 or encoded or coded) adj video same conver\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:51
L36	1	tiling same (compress\$6 or encoded or coded) adj video and conver\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:55
L37	12	low adj resolution same add\$6 same macroblock same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 10:58
L38	4	tiling same conver\$6 same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 11:01
L39	636	tiling same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 11:01

EAST Search History

L40	45	tiling same resolution same (compress\$6 or encoded or coded)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:17
L41	1392	padd\$6 same video	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:17
L42	20	padd\$6 same video same add\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:22
L43	33	padd\$6 same (compress\$6 or encoded or coded) adj video same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:26
L44	154	pad\$6 same (compress\$6 or encoded or coded) adj video	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:26
L45	106	pad\$6 same (compress\$6 or encoded or coded) adj video and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:26
L46	86	pad\$6 same (compress\$6 or encoded or coded) adj video and resolution and multiplex\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:32
L47	29	pad\$6 same (compress\$6 or encoded or coded) adj video same resolution and multiplex\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:36
L48	5	pad\$6 same (compress\$6 or encoded or coded) adj video same (pixel or pel) and multiplex\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:32
L49	112	extend\$6 adj frame same compressed	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:43

EAST Search History

L50	349	extend\$6 adj frame same compress\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:36
L51	0	extend\$6 adj frame same compress\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:37
L52	11	extend\$6 adj frame same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:37
L53	11	extend\$6 adj frame same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:39
L54	1	extend\$6 adj frame same resolution and compress\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:37
L55	7022246	low adj resolution same conver\$6 high resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:56
L56	532235	low adj resolution same conver\$6 same high resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:44
L57	13666	low adj resolution same conver\$6 same high resolution same (til\$6 or pad\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:46
L58	28	low adj resolution same conver\$6 same high adj resolution same (til\$6 or pad\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:46
L59	180358	low adj resolution same conver\$6 high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:57

EAST Search History

L60	2035	low adj resolution same conver\$6 same high adj resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 12:58
L61	29	low adj resolution same conver\$6 same high adj resolution and splic\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:02
L62	137	low adj resolution same conver\$6 same high adj resolution and til\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:03
L63	154	low adj resolution same conver\$6 same high adj resolution and pad\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:02
L64	28	low adj resolution same conver\$6 same high adj resolution and pad\$6 same (pixel or pel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:03
L65	31	low adj resolution same conver\$6 same high adj resolution and til\$6 same (pixel or pel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:03
L66	1	"6278736".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:45
L67	1	"6466625".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:45
L68	1	"6510177".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:46
L69	1	"6891890".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:33

EAST Search History

L70	0	"20040239649".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:47
L71	1	"5347311".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:49
L72	0	"6867764".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:50
L73	1	"5638128".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:52
L74	1	"5638128".pn. and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:51
L75	0	"5638128".pn. and resolution same til\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:51
L76	1	"6778217".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:52
L77	2	"6005624".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:53
L78	0	"6005624".pn. and (pad\$6 or til\$3) same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:54
L79	0	"6148027".pn. and (pad\$6 or til\$3) same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:54

EAST Search History

L80	1	"6148027".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:55
L81	2	"6259732".pn. and (pad\$6 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:12
L82	0	"6259732".pn. and (pad\$6 or til\$3) and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:58
L83	1	re38564.pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 13:59
L84	1	re38564.pn. and pad\$3 and resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:00
L85	1	re38564.pn. and pad\$3 same (compress43 or encoded or coded)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:00
L86	0	"6891890".pn. and (pad\$3 or til\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:12
L87	179	(Fine adj granularity adj scalab\$6 or FGS) same base and enhancement same layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:34
L88	170	(Fine adj granularity adj scalab\$6 or FGS) same (base and enhancement) same layer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:34
L89	28	(Fine adj granularity adj scalab\$6 or FGS) same (base and enhancement) same layer and compress\$6 same domain	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:36

EAST Search History

L90	8	transcod\$6 same multiplex\$6 same resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:47
L91	109	combin\$6 same compress\$6 adj bitstreams	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 14:48

File 9:Business & Industry(R) Jul/1994-2006/May 08
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 File 16:Gale Group PROMT(R) 1990-2006/May 12
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 (c) 2005 The HW Wilson Co.
 File 112:UBM Industry News 1998-2004/Jan 27
 (c) 2004 United Business Media
 File 141:Readers Guide 1983-2006/Feb
 (c) 2006 The HW Wilson Co
 File 148:Gale Group Trade & Industry DB 1976-2006/May 12
 (c)2006 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2006/May 11
 (c) 2006 The Gale Group
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 (c) 2006 Dialog
 File 369:New Scientist 1994-2006/Feb W4
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 File 370:Science 1996-1999/Jul W3
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 (c) 2006 Dialog
 File 674:Computer News Fulltext 1989-2006/Apr W5

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 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2006/May W1
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Set	Items	Description
S1	8909860	VIDEO?? OR IMAGE??? OR GRAPHIC???
S2	1922974	RESOLUTION??
S3	15178	(CONVERT???? OR TRANSFORM???? OR TRANSLAT???? OR CONVERSIO- N?? OR UPGRAD????) (5N) S2
S4	364146	(HIGH OR LARGE??? OR HIGHER) (5N) S2
S5	31837	(INCREASING?? OR BROAD????? OR BOOST??? OR LENGTHEN??? OR - RAIS??? OR EXPAND??? OR MAXIMI????) (5N) S2
S6	60023	(LOW OR LOWER OR LESSER?? OR SMALL???) (5N) S2
S7	31789	(REDUC??? OR DIMINISH???? OR LESSEN???? OR LOWER??? OR MIN- IMIZ????) (5N) S2
S8	143579	(COMPRESS??? OR ENCOD???? OR ENCRYPT???) (5N) S1
S9	62173	COD??? (5N) S1
S10	3928	AU=(ZHANG J? OR ZHANG, J? OR LIU H? OR LIU, H?)
S11	6531	(COMPRESS??? OR ENCOD???? OR ENCRYPT??? OR COD????) (2N) DOM- AIN??
S12	14	S3 (S) (S4 OR S5) (S) (S6 OR S7) (S) (S8 OR S9)
S13	10	RD (unique items)
S14	7	S13 NOT PY>2001
S15	633	S3 (S) (S4 OR S5) (S) (S6 OR S7)
S16	0	S15 (S) S11
S17	23	S15 (S) (COMPRESS???? OR ENCOD???? OR ENCRYPT???)
S18	18	RD (unique items)
S19	12	S18 NOT S14
S20	62	S10 AND S2 AND (S4 OR S5)
S21	10	S20 AND (S6 OR S7)
S22	7	RD (unique items)
S23	4	S22 AND S1

14/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00853852 95-03244

Video-editing tools

Hoffer, Avi

Macworld v11n6 PP: 94-101 Jun 1994

ISSN: 0741-8647 JRNL CODE: MAW

WORD COUNT: 5116

...TEXT: 1000 is Avid's midrange offline/online system, positioned to compete against some of the **lower** -cost **high - resolution** systems while maintaining an **upgrade** path to the Media Composer 4000 and 8000 systems (two full-featured digital online systems that use 60-field AVR25 **compression** to preserve the highest **image** quality).

REAL TIME, REAL VALUE

Britain's Carlton Communications plc is no stranger to video...

14/3,K/2 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2006 Dialog. All rts. reserv.

05431503 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Scans make sure fighter is invisible; Radar; Innovation

SUNDAY TIMES (UNITED KINGDOM)

May 23, 1999

JOURNAL CODE: FSTM LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 602

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... an aircraft are then processed by a small computer and converted into high-resolution 3D **images** that are **compressed** to 2D before being projected onto the operator's visor at a rate of two...

14/3,K/3 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2006 The Gale group. All rts. reserv.

03463180 SUPPLIER NUMBER: 09389467 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A new wave in applied mathematics; a technique called wavelets may upstage Fourier analysis in a multitude of applications - from CAT scanning to locating subs.

Cipra, Barry A.

Science, v249, n4971, p858(2)

August 24, 1990

CODEN: SCIEAS ISSN: 0036-8075 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1294 LINE COUNT: 00104

... music.

In visual terms, the dilated and compressed versions of the mother wavelet correspond to **low - resolution** and **high - resolution** details of a picture. Indeed, stephane Mallat and Sifen Zhong of the Courant Institute at...

...York University are exploiting this analogy to develop a two-dimensional wavelet approach to data **compression** of digitized **images**. The basic idea is simple: compute the wavelet **transform** to a certain level of **resolution** and record only the coefficients that are above a certain threshold. Since most images have...

14/3,K/4 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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02673705 SUPPLIER NUMBER: 00655535
User-to-User: Low-Resolution Magic.
Somerson, P.
PC Magazine, v4, n23, p292
Nov. 12, 1985
DOCUMENT TYPE: column ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

ABSTRACT: A **low - resolution** mode that creates an 80 by 50 screen on a color-graphics board can be produced by implementing the 6845 **graphics** chip. The BASIC **code** program shows **converts** the screen to the **low - resolution** mode. The screen shown fifty rows of half-height characters while in the **low resolution** mode, even though the color-graphics board is operating for a 40 by 25 character screen. Up to four screens can be worked at once, since the **low - resolution** mode uses only 4K-bytes of the screen buffer. Two program listings show how to change the screen to a **low resolution** mode, and create a kaleidoscope demonstration that switches from **low** to **high resolution**.

14/3,K/5 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01280397
IRI Scientists Adapt TV Cameras for IV.
AMERICAN METAL MARKET November 18, 1985 p. 11,121

International Robomation/Intelligence (Carlsbad, California) has developed **high** -speed, variable- **resolution** industrial vision systems, adapting solid-state TV cameras being made available from Japanese manufacturers. The...

...and 1024 x 1024 pixels, depend on the options available. IRI developed a systolic array, **resolution - transforming** processor with 50 million operations per second that is capable of either 'windowing' areas of interest in the **high - resolution image** for subsequent feature recognition or compressing the entire **high - resolution image** into a corresponding **lower - resolution** image without loss of information.

14/3,K/6 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2006 The Gale Group. All rts. reserv.

01526841 SUPPLIER NUMBER: 12375456 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Fractal lib. (Iterated Systems' Images Incorporated image processing software) (Brief Article) (Product Announcement)

EXE, v7, n2, p9(1)

July, 1992

DOCUMENT TYPE: Product Announcement

ISSN: 0268-6872

LANGUAGE:

ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 144 LINE COUNT: 00012

TEXT:

...readily accessible software product. Using the same Fractal Image format (FIF) as its Fractal Transform **compression** board, Iterated Systems has developed **Images** Incorporated, a fractal **compression** library which the company says can produce similar compression ratios and picture quality as the compression board. The package also includes Fractal **Transform Resolution** Enhancement which uses a lossless technique to improve picture quality of an uncompressed image. It works by continually adding extra detail to the image in order to **expand** the pixel **resolution** and thus eliminate the 'blocky pixelation' associated with **low resolution** images. Image Incorporated costs [Pounds]450 and is distributed in the UK by Imago Micro...

14/3,K/7 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2006 The Gale Group. All rts. reserv.

01323543 SUPPLIER NUMBER: 08059642

Video VAX. (vidoeotaping from a VAX workstation)

Marcus, Robert P.

DEC Professional, v9, n1, p54(2)

Jan, 1990

ISSN: 0744-9216

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

ABSTRACT: Video scan converters serve as interfaces between the **high - resolution** output of workstations and the **lower resolution** of composite video devices. **Converters** perform line and pixel averaging on grayscale or full-color input, while providing genlock, sync generation and **encoding**, to produce standard composite **video** output in real-time without interruption or processing burdens on the host. The converter digitizes...

...then the digitized image is converted by D/As to RGB signals which are then **encoded** into NTSC or PAL composite **video**. Some systems offer aspect ratio correction and flicker filtering to improve picture quality. Some have...

?

19/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2006 The Gale Group. All rts. reserv.

02753408 Supplier Number: 25251973 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Codec improvements deliver cleaner images, immersive sound

EDN, v 47, n 12, p 20
May 30, 2002
DOCUMENT TYPE: Journal ISSN: 0012-7515 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 460

TEXT:
...API, OS enhancements eyeball eyeballs - and ears," above). RealNetworks
claims that it has improved video- **compression** efficiency by 30%,
translating to **higher** frame rates, **higher resolutions** , and **reduced**
amounts of visible artifacts than Version 8 at the same bit rate and to
equivalent...

19/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

07105507 Supplier Number: 60077051 (USE FORMAT 7 FOR FULLTEXT)
Pacific Microsonics Announces HDCD for Dolby Digital Audio Format.
Business Wire, p0724
March 13, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 538

... sound quality."
Recording engineers will use Pacific Microsonics Model Two HDCD
processors to generate HDCD **high resolution** , **low** distortion digital
signals that will then be **encoded** using the Dolby AC-3 algorithm to
produce a Dolby Digital/HDCD recording. Embodied in these releases will be
the sonic benefits of HDCD **high resolution** Analog-to-Digital
conversion , HDCD dynamic decimation filtering, and HDCD high frequency
dither.
About Pacific Microsonics HDCD
Developed by...

19/3,K/3 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

03209983 Supplier Number: 44401765 (USE FORMAT 7 FOR FULLTEXT)
Drillhole Methods
Canadian Mining Journal, pS8
Feb, 1994
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1413

... custom-calibrated for in-situ assaying.
Lamontagne Geophysics developed two new products in 1993; an **upgraded**
high resolution 32-bit fibre-optic data link, and a new modular high

pressure downhole package. The...

...information can be sent to the surface in each data packet. It also accommodates a **higher resolution** down-the-hole **encoder** package which is contained in a newly designed downhole probe. This provides up to sixteen times better **resolution** in deep **small** signal environments. The new probe construction, measuring 5.2 metres in length when assembled and ...

...clamps which rest on the collar during assembly. This eliminates the flexible cable link between **encoder** and sensor which was failure prone. All probes currently in use have been converted to...

19/3,K/4 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2006 Dialog. All rts. reserv.

27636341 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Event Brief of Q4 2002 SanDisk Corp. Financial Results Conference Call - Final
FAIR DISCLOSURE WIRE
January 22, 2003
JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 4314

... higher capacity than current 2. Will capture real time video such as compressed movies and **high resolution** images 3. Sony expects majority of new products to increase support for new memory stick...

19/3,K/5 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2006 Dialog. All rts. reserv.

25100426
ViXS Announces Sampling of a Video Networking Processor to Deliver Video-Over-Wireless
CANADA NEWSWIRE
September 23, 2002
JOURNAL CODE: WCNW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 713

... on a network. The XCode IC provides content security with DES, Triple DES or AES **encryption** technologies and supports standards-based low-cost networks such as WiFi (IEEE 802.11), Ethernet...

19/3,K/6 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2006 The Gale Group. All rts. reserv.

06909671 SUPPLIER NUMBER: 122566609
Spatially adaptive high-resolution image reconstruction of DCT-based compressed images.(discrete cosine transform)
Park, Sung Cheol; Kang, Moon Gi; Segall, C. Andrew; Katsaggelos, Aggelos K.
IEEE Transactions on Image Processing, 13, 4, 573(13)
April, 2004
ISSN: 1057-7149 LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT: The study of a proposed **high** -resolution reconstruction algorithm for recovering a **high** - **resolution** image from a sequence of low- **resolution** discrete cosine **transform** (DCT) based **compressed** observations that simultaneously estimate the quantization noise is presented. This quantization noise modeled as a...

19/3,K/7 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

16675082 SUPPLIER NUMBER: 111357679 (USE FORMAT 7 OR 9 FOR FULL TEXT
)

Fourier transforms in the mechanical domain?(The outlook for new technology sightings)

Schweber, Bill

EDN, 48, 25, 34(1)

Nov 13, 2003

ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 175 LINE COUNT: 00017

... IC. The MEMS compressor uses very little power itself; and the subsequent active components are **lower resolution** and **lower** power devices than those that the conventional approach uses.

19/3,K/8 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

14701600 SUPPLIER NUMBER: 87694976 (USE FORMAT 7 OR 9 FOR FULL TEXT)

API, OS enhancements eyeball eyeballs--and ears. (leading edge).(Microsoft product planning and related article)

Dipert, Brian

EDN, 47, 12, 18(2)

May 30, 2002

ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1445 LINE COUNT: 00127

... eyeballs--and ears," above). RealNetworks claims that it has improved video-compression efficiency by 30%, **translating** to **higher** frame rates, **higher** resolutions, and **reduced** amounts of visible artifacts than Version 8 at the same bit

19/3,K/9 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

03518163 SUPPLIER NUMBER: 06321258 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Aiding mechanical design. (Becton-Dickinson and Co)

Goggin, David

Computer Graphics World, v11, n5, p64(2)

May, 1988

ISSN: 0271-4159 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 808 LINE COUNT: 00065

... line and pixel information or simply providing a low-resolution window, the HRC performs complex **compression** operations on the full 1280-by-1024 images. These images are created with a VAX...

19/3,K/10 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

02029592 SUPPLIER NUMBER: 03293601 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Scan converter produces high resolution TV radar images.
Russell, David M.
Defense Electronics, v16, p142(2)
June, 1984
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 508 LINE COUNT: 00040

... visibility and amplitude discrimination. Additional digital signal processing capability provides signal processing capability provides signal **compression**, thresholding, and integration to further enhance the radar display. Memory output modes allow for freeze...

19/3,K/11 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01844601
MONOLITHIC 6-BIT 75-MSPS A/D CONVERTER PROCESSED TO MIL-STD-883B REV. C
News Release November 30, 1987 p. 1

... STD-883B Rev. C. The "flash" ADC guarantees a minimum 75MSPS (million samples per second) **encode** rate with no missing codes. Applications for the converter include telecommunications, electronic warfare systems, and...

... intermodulation rejection, 2ns aperture delay and 25ps aperture uncertainty (jitter). An overflow bit facilitates cascading **converters** to achieve **higher resolution** without **reducing** the sampling rate. The AD9000 accepts reference voltages up to +/-2.048V and unipolar or...

19/3,K/12 (Item 1 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
(c)2006 Knight Ridder/Tribune Bus News. All rts. reserv.

06723778 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Chicago Tribune Ask Jim Column
James Coates
Chicago Tribune
November 22, 1999
DOCUMENT TYPE: NEWSPAPER RECORD TYPE: FULLTEXT LANGUAGE: ENGLISH
WORD COUNT: 1371

...TEXT: soft-looking images on TV that are inferior to the beautifully sharp displays that a **high - resolution** computer monitor produces. Cheaper **converters** tend to only support **low - resolution** monitor displays, which might mean that the image passed through them doesn't fill the...I'm wondering if there's a way to transfer this analog information into MP3 **compression** on my hard drive along with my CDs. It would sure be great to play...

...that makes quick work of converting anything you play on the turntable

into the highly **compressed** MP3 files needed to store music on your hard drive for later play.
MusicMatch stands...

23/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2006 The Gale group. All rts. reserv.

06275882 SUPPLIER NUMBER: 71251621 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The Sequence of the Human Genome.

Venter, J. Craig; Adams, Mark D.; Myers, Eugene W.; Li, Peter W.; Mural, Richard J.; Sutton, Granger G.; Smith, Hamilton O.; Yandell, Mark; Evans, Cheryl A.; Holt, Robert A.; Gocayne, Jeannine D.; Amanatides, Peter; Ballew, Richard M.; Huson, Daniel H.; Wortman, Jennifer Russo; Zhang, Qing; Kodira, Chinnappa D.; Zheng, Xiangqun H.; Chen, Lin; Skupski, Marian; Subramanian, Gangadharan; Thomas, Paul D.; **Zhang, Jinghui**; Miklos, George L. Gabor; Nelson, Catherine; Broder, Samuel; Clark, Andrew G.; Nadeau, Joe; McKusick, Victor A.; Zinder, Norton; Levine, Arnold J.; Roberts, Richard J.; Simon, Melvin; Slayman, Carolyn; Hunkapiller, Michael; Bolanos, Randall; Delcher, Arthur; Dew, Ian; Fasulo, Daniel; Flanigan, Michael; Florea, Liliana; Halpern, Aaron; Hannenhalli, Sridhar; Kravitz, Saul; Levy, Samuel; Mobarry, Clark; Reinert, Knut; Remington, Karin; Abu-Threideh, Jane; Beasley, Ellen; Biddick, Kendra; Bonazzi, Vivien; Brandon, Rhonda; Cargill, Michele; Chandramouliswaran, Ishwar; Charlab, Rosane; Chaturvedi, Kabir; Deng, Zuoming; Di Francesco, Valentina; Dunn, Patrick; Eilbeck, Karen; Evangelista, Carlos; Gabrielian, Andrei E.; Gan, Weiniu; Ge, Wangmao; Gong, Fangcheng; Gu, Zhiping; Guan, Ping; Heiman, Thomas J.; Higgins, Maureen E.; Ji, Rui-Ru; Ke, Zhaoxi; Ketchum, Karen A.; Lai, Zhongwu; Lei, Yiding; Li, Zhenya; Li, Jiayin; Liang, Yong; Lin, Xiaoying; Lu, Fu; Merkulov, Gennady V.; Milshina, Natalia; Moore, Helen M.; Naik, Ashwinikumar K; Narayan, Vaibhav A.; Neelam, Beena; Nusskern, Deborah; Rusch, Douglas B.; Salzberg, Steven; Shao, Wei; Shue, Bixiong; Sun, Jingtao; Wang, Zhen Yuan; Wang, Aihui; Wang, Xin; Wang, Jian; Wei, Ming-Hui; Wides, Ron; Xiao, Chunlin; Yan, Chunhua; Yao, Alison; Ye, Jane; Zhan, Ming; Zhang, Weiqing; Zhang, Hongyu; Zhao, Qi; Zheng, Liansheng; Zhong, Fei; Zhong, Wenyan; Zhu, Shiaoping C.; Zhao, Shaying; Gilbert, Dennis; Baumhueter, Suzanna; Spier, Gene; Carter, Christine; Cravchik, Anibal; Woodage, Trevor; Ali, Feroze; An, Huijin; Awe, Aderonke; Baldwin, Danita; Baden, Holly; Barnstead, Mary; Barrow, Ian; Beeson, Karen; Busam, Dana; Carver, Amy; Center, Angela; Cheng, Ming Lai; Curry, Liz; Danaher, Steve; Davenport, Lionel; Desilets, Raymond; Dietz, Susanne; Dodson, Kristina; Doup, Lisa; Ferriera, Steven; Garg, Neha; Gluecksmann, Andres; Hart, Brit; Haynes, Jason; Haynes, Charles; Heiner, Cheryl; Hladun, Suzanne; Hostin, Damon; Houck, Jarrett; Howland, Timothy; Ibegwam, Chinyere; Johnson, Jeffery; Kalush, Francis; Kline, Lesley; Koduru, Shashi; Love, Amy; Mann, Felecia; May, David; McCawley, Steven; McIntosh, Tina; McMullen, Ivy; Moy, Mee; Moy, Linda; Murphy, Brian; Nelson, Keith; Pfannkoch, Cynthia; Pratts, Eric; Puri, Vinita; Qureshi, Hina; Reardon, Matthew; Rodriguez, Robert; Rogers, Yu-Hui; Rombiad, Deanna; Ruhfel, Bob; Scott, Richard; Sitter, Cynthia; Smallwood, Michelle; Stewart, Erin; Strong, Renee; Suh, Ellen; Thomas, Reginald; Tint, Ni Ni; Tse, Sukyee; Vech, Claire; Wang, Gary; Wetter, Jeremy; Williams, Sherita; Williams, Monica; Windsor, Sandra; Winn-Deen, Emily; Wolfe, Keriellen; Zaveri, Jayshree; Zaveri, Karena; Abril, Josep F.; Guigo, Roderic; Campbell, Michael J.; Sjolander, Kimmen V.; Karlak, Brian; Kejariwal, Anish; Mi, Huaiyu; Lazareva, Betty; Hatton, Thomas; Narechania, Apurva; Diemer, Karen; Muruganujan, Anushya; Guo, Nan; Sato, Shinji; Bafna, Vineet; Istrail, Sorin; Lippert, Ross; Schwartz, Russell; Walenz, Brian; Yooseph, Shibu; Allen, David; Basu, Anand; Baxendale, James; Blick, Louis; Caminha, Marcelo; Carnes-Stine, John; Caulk, Parris; Chiang, Yen-Hui; Coyne, My; Dahlke, Carl; Mays, Anne Deslattes; Dombroski, Maria; Donnelly, Michael; Ely, Dale; Esparham, Shiva; Fosler, Carl; Gire, Harold; Glanowski, Stephen; Glasser, Kenneth; Glodek, Anna; Gorokhov, Mark; Graham, Ken; Gropman, Barry; Harris, Michael; Heil, Jeremy; Henderson, Scott; Hoover, Jeffrey; Jennings, Donald; Jordan, Catherine; Jordan, James; Kasha, John; Kagan, Leonid; Kraft, Cheryl; Levitsky, Alexander; Lewis, Mark; Liu, Xiangjun; Lopez, John; Ma, Daniel;

Majoros, William; McDaniel, Joe; Murphy, Sean; Newman, Matthew; Nguyen, Trung; Nguyen, Ngoc; Nodell, Marc; Pan, Sue; Peck, Jim; Peterson, Marshall; Rowe, William; Sanders, Robert; Scott, John; Simpson, Michael; Smith, Thomas; Sprague, Arlan; Stockwell, Timothy; Turner, Russell; Venter, Eli; Wang, Mei; Wen, Meiyuan; Wu, David; Wu, Mitchell; Xia, Ashley; Zandieh, Ali ; Zhu, Xiaohong

Science, 291, 5507, 1304

Feb 16, 2001

ISSN: 0036-8075

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 39163

LINE COUNT: 03318

... Zhang, Jinghui

... Science Online at www.sciencemag.org/cgi/content/full/291/5507/1304/DC1) provides a **graphical** overview of the genome and the features encoded in it. The detailed manual curation and...sequence within a genome.

For the *Drosophila* assembly, we engaged in a three-stage repeat **resolution** strategy where each stage was progressively more aggressive and thus more likely to make a...data were delivered and then perform a 7-day run to complete Scaffolding and Repeat **Resolution** whenever desired. For our assembly operations, the total compute infrastructure consists of 10 four-processor...

...each of which could be shotgun assembled individually. We expected that this would help in **resolution** of **large** interchromosomal duplications and improve the statistics for calculating U-unitigs. The compartmentalized assembly process involved...human curators to resolve discrepancies or missed join opportunities. To this end, we developed a **graphical** user interface that displayed the graph of tiling overlaps and the evidence for each. A...scaffold groups onto the chromosome using physical mapping data. This step depends on having reliable **high - resolution** map information such that each scaffold will overlap multiple markers. There are two genome-wide...scaffolds, more than 99% of which are also oriented (Table 4). Because GM99 is of **lower resolution** than the WashU map, a number of scaffolds without STS matches could be ordered relative...mate pairs indicated a potential breakpoint, where the construction of the two assemblies differed. The **graphic** comparison of the CSA chromosome 21 assembly with the published sequence (Fig. 6A) serves as...

...likely to identify discrepancies simply because they span a larger segment of the genome. The **graphic** comparison between the two assemblies for chromosome 8 (Fig. 6, B and C) shows that...in Centre d'Etude du Polymorphisme Humain (CEPH) and other reference families to provide a **resolution** any finer than about 3 Mbp. The next challenge will be to determine a sequence...Repetitive sequence may be underrepresented in the Celera assembly as a result of incomplete repeat **resolution**, as discussed above. About 8% of the scaffold length is in gaps, and we expect...were made. On the basis of these factors, the corresponding mouse chromosomal spans, at coarse **resolution**, appear to be products of the same large-scale duplications observed in humans. Although further...of individual BAC clones permitted extension of the sequence well into centromeric regions and allowed **high -quality resolution** of complex repeat regions. Likewise, in *Drosophila*, the BAC physical map was most useful in...

23/3,K/2 (Item 2 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

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04166152 SUPPLIER NUMBER: 15951208 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Growth and sintering of fullerene nanotubes.
Colbert, D.T.; Zhang, J. ; McClure, S.M.; Nikolaev, P.; Chen, Z.; Hafner,
J.H.; Owens, D.W.; Kotula, P.G.; Carter, C.B.; Weaver, J.H.; Rinzler, A.G.;
Smalley, R.E
Science, v266, n5188, p1218(5)
Nov 18, 1994
ISSN: 0036-8075 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 4002 LINE COUNT: 00300

... Zhang, J

... big improvement, tube tube sintering had not been eliminated entirely.

A scanning electron microscope (SEM) **image** of a section of one of these 50-[micro]m columns (Fig. 1) shows that regular pattern. A **low - resolution** SEM view of the top of such a region of a boule deposit on 19 ...

...was removed from the arc apparatus showed the tops of the columns to be hemispherical. **Higher resolution** SEM views of the column tops and the intervening regions showed the entire surface to...

...differential etching effect is even more clearly seen in Fig. 4B, which is an SEM **image** of the cleaved side of a boule, showing the side and top after the 650...

...a wasp nest, with empty holes where the columns of zone 1 had been. A **higher resolution** SEM **image** of the zone 2 material surrounding the vertical holes (Fig. 4C) shows that it consists...

23/3,K/3 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
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06335510 SUPPLIER NUMBER: 96238471
Effect of gap size on tip leakage cavitation inception, associated noise and flow structure.(Abstract)
Gopalan, Shridhar; Katz, Joseph; Liu, Han L.
Journal of Fluids Engineering, 124, 4, 994(11)
Dec, 2002
DOCUMENT TYPE: Abstract ISSN: 0098-2202 LANGUAGE: English
RECORD TYPE: Abstract

... Liu, Han L.

...AUTHOR ABSTRACT: their growth in the vortex core. Mere changes to bubble size and shape caused significantly **lower** noise. **High - resolution** particle **image** velocimetry (PIV) with a vector spacing of 180 (micro)m is used to measure the...

23/3,K/4 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05889690 SUPPLIER NUMBER: 12307743 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Workstation aids RF signal-processor design. (radio-frequency)
Miedaner, Donald R.; Liu, Hu-Lin ; Gilmer, Michael; Stockmann, Peter H
Microwaves & RF, v31, n3, p177(5)
March, 1992

ISSN: 0745-2993
WORD COUNT: 2212

LANGUAGE: ENGLISH
LINE COUNT: 00180

RECORD TYPE: FULLTEXT

... Liu, Hu-Lin

... and SAU. One or two terminals can be used to control the workstation, and a **high - resolution** monitor with a mouse provides the **graphics** display and user interface.

The STAR workstation can generate and process different signal waveforms in...DRAM-8E memory board (32 MB) from Force Computer Inc. (Campbell, CA) and an OMNI8600 **high - resolution graphics** board from Omnicomp **Graphics** Corp. (Houston, TX). STAR also contains several mass-storage devices: a 700-Kb floppy disk...techniques to be performed in real time in the frequency domain. Frequency-domain processing provides **higher** frequency **resolution** and **lower** calculation loads than comparable time-domain techniques that employ FIR filters. The result is better I/Q **image** rejection and flatter post-equalization amplitude and phase response.

?

File 348:EUROPEAN PATENTS 1978-2006/ 200619

(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20060511,UT=20060504

(c) 2006 WIPO/Univentio

Set	Items	Description
S1	632703	VIDEO?? OR IMAGE??? OR GRAPHIC???
S2	157483	RESOLUTION??
S3	6916	(CONVERT???? OR TRANSFORM???? OR TRANSLAT???? OR CONVERSIO- N?? OR UPGRAD????) (5N)S2
S4	62951	(HIGH OR LARGE??? OR HIGHER) (5N)S2
S5	6317	(INCREASING?? OR BROAD????? OR BOOST??? OR LENGTHEN??? OR - RAIS??? OR EXPAND??? OR MAXIMI????) (5N)S2
S6	24368	(LOW OR LOWER OR LESSER?? OR SMALL???) (5N)S2
S7	15462	(REDUC??? OR DIMINISH???? OR LESSEN???? OR LOWER??? OR MIN- IMIZ????) (5N)S2
S8	35214	(COMPRESS??? OR ENCOD????? OR ENCRYPT???) (5N)S1
S9	29128	COD??? (5N)S1
S10	1721	AU=(ZHANG J? OR ZHANG, J? OR LIU H? OR LIU, H?)
S11	83	S3(S) (S4 OR S5) (S) (S6 OR S7) (S) (S8 OR S9)
S12	72	S11 NOT AD=20010604:20030512/PR
S13	60	S12 NOT AD=20030512:20060512/PR
S14	48	S13(S)S8
S15	82	S3(S) (S4 OR S5) (S) (S6 OR S7) (S)S11
S16	0	S15 NOT S11
S17	3	S10 AND S1 AND S3
S18	3	S17 NOT S11

14/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

02026242

HDTV downconversion system

Abwartsumwandlungssystem fur HDTV-signale

Systeme de transposition par abaissement de frequence des signaux TVHD

PATENT ASSIGNEE:

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Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1628479 A2 060222 (Basic)

APPLICATION (CC, No, Date): EP 2005016820 980311;

PRIORITY (CC, No, Date): US 40517 P 970312

DESIGNATED STATES: DE; FR; GB

RELATED PARENT NUMBER(S) - PN (AN):

EP 901735 (EP 98911567)

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

H04N-0007/01 A I F B 20060101 20051109 H EP

ABSTRACT WORD COUNT: 435

NOTE:

Figure number on first page: 2A

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200608	1098
SPEC A	(English)	200608	15857
Total word count - document A			16955
Total word count - document B			0
Total word count - documents A + B			16955

...SPECIFICATION decoder for receiving, decoding and conversion of
frequency domain encoded signals, e.g. MPEG-2 **encoded video** signals,
into standard output **video** signals, and more specifically to a decoder
which **converts** and formats an **encoded high resolution video**
signal to a decoded **lower resolution** output video signal.

BACKGROUND OF THE INVENTION

In the United States a standard, the Advanced...

14/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01307895

Method for generating anti-aliased text and line graphics in compressed document images

Verfahren zum Erzeugen von aliasfreien Text und Liniengraphiken in

komprimierten Dokumenten

Procede de generation de textes et graphiques anti-creneles dans des documents comprimes

PATENT ASSIGNEE:

Xerox Corporation, (219788), Xerox Square - 20A, 100 Clinton Avenue South
, Rochester, New York 14644, (US), (Applicant designated States: all)

INVENTOR:

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Vincent, Luc, 4237 Manuela Avenue, Palo Alto, California 94306, (US)

LEGAL REPRESENTATIVE:

Skone James, Robert Edmund (50281), GILL JENNINGS & EVERY Broadgate House
7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 1119186 A2 010725 (Basic)
EP 1119186 A3 020731

APPLICATION (CC, No, Date): EP 2001300440 010118;

PRIORITY (CC, No, Date): US 487583 000119

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-001/409; H04N-001/64

ABSTRACT WORD COUNT: 73

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200130	398
SPEC A	(English)	200130	9958
Total word count - document A			10356
Total word count - document B			0
Total word count - documents A + B			10356

...SPECIFICATION the fifth exemplary embodiment where the very high
resolution binary text or lineart mask is **compressed** as a full **image** .

The exemplary embodiments of the present invention may also be
implemented to generate anti-aliased...

14/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01220838

**Shuffling device, coding device, decoding device of video signal and medium
recording the programs of shuffling, coding and decoding**

**Vorrichtung zur Verschachtelung, Kodierung und Dekodierung, und Trager zur
Aufzeichnung der Verschachtelung-, Kodierung-, und Dekodierungsprogramm
e**

**Dispositif d'entrelacement, dispositif de codage, dispositif de decodage de
signal video, and support d'enregistrement des programmes
d'entrelacement, codage et decodage**

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

Fujiwara, Yuji, 14-56-506, Takakuracho, Nishinomiya-shi, Hyogo 662-0872,
(JP)

Nishino, Masakazu, 1-4-26, Kamiichi, Kashiwara-shi, Osaka 582-0007, (JP)
Miyashita, Mitsuhiro, 16-2, Takaginishimachi, Nishinomiya-shi, Hyogo

663-8032, (JP)
 Wake, Kazuhiro, 14-15-301, Oedanishimachi, Moriguchi-shi, Osaka 570-0054,
 (JP)
 Takeuchi, Seiichi, 2-7-201, Sakaibashicho, Neyagawa-shi, Osaka 572-0018,
 (JP)
 Okamoto, Keishi, 6-21-107, Myokenzaka, Katano-shi, Osaka 576-0021, (JP)
 LEGAL REPRESENTATIVE:
 Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
 , Maximilianstrasse 58, 80538 Munchen, (DE)
 PATENT (CC, No, Kind, Date): EP 1059813 A2 001213 (Basic)
 EP 1059813 A3 040825
 EP 1059813 A3 040825
 APPLICATION (CC, No, Date): EP 2000112297 000608;
 PRIORITY (CC, No, Date): JP 99160513 990608; JP 99160590 990608; JP
 99172043 990618; JP 99341023 991130
 DESIGNATED STATES: DE; GB
 EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
 INTERNATIONAL PATENT CLASS (V7): H04N-005/919; H04N-007/26; H04N-007/30;
 G11B-020/18
 ABSTRACT WORD COUNT: 151
 NOTE:
 Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200050	5610
SPEC A	(English)	200050	13884
Total word count - document A			19494
Total word count - document B			0
Total word count - documents A + B			19494

...CLAIMS second compressed stream.

43. A video signal decoding device wherein,
 said decoding device decodes a **video** signal from a first **compressed**
 stream and a second compressed stream, where the first compressed
 stream is formed by **coding** a second **video** signal of a **low**
resolution with a motion compensation, the second video signal is
 created out of a first video signal of a **high resolution** and the
 second compressed stream is formed by coding a differential signal
 between the first video signal and a third video signal **converted**
 to the same **resolution** as the first video signal out of a decoded
 video signal of the second video...

...44. A program recording medium storing a program wherein,
 the program relates with decoding a **video** signal from a first
compressed stream and a second compressed stream, where the first
 compressed stream is formed by **coding** a second **video** signal of a
low resolution with a motion compensation, the second video signal
 is created out of a first video signal of a **high resolution** and
 the second compressed stream is formed by coding a differential
 signal between the first video signal and a third video signal
converted to the same **resolution** as the first video signal out of
 a decoded video signal of the second video...

...decoded differential signal .

45. A video signal decoding device wherein,
 said decoding device decodes a **video** signal from a first **compressed**
 stream and a second compressed stream, where the first compressed
 stream is formed by **coding** the second **video** signal of a **low**

resolution with a motion compensation, the second video signal is created out of a first video signal of a **high resolution** and a second compressed stream is formed by coding a differential signal between the first video signal and a third video signal **converted** to the same **resolution** as the first video signal out of a decoded video signal of the second video...

...46. A program recording medium storing a program wherein, the program relates with decoding a **video** signal from a first **compressed** stream and a second compressed stream, where the first compressed stream is formed by **coding** a second **video** signal of a **low resolution** with a motion compensation, the second video signal is created out of a first video signal of a **high resolution** and the second compressed stream is formed by coding a differential signal between the first video signal and a third video signal **converted** to the same **resolution** as the first video signal out of a decoded video signal of the second video...

...the differential signal.

47. A video signal decoding device wherein, said decoding device decodes a **video** signal from a first **compressed** stream and a second compressed stream, where the first compressed stream is formed by **coding** a second **video** signal of a **low resolution** with a motion compensation, the second video signal is created out of a first video signal of a **high resolution** and the second compressed stream is formed by coding a differential signal between the first video signal and a third video signal **converted** to the same **resolution** as the first video signal out of a decoded video signal of the second video

14/3,K/4 (Item 4 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01184226

Video transcoding method and apparatus
Verfahren und Vorrichtung zur Videotranskodierung
Procede et dispositif de transcodage video

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216887), 1006, Oaza Kadoma,
Kadoma-shi, Osaka-fu, (JP), (Proprietor designated states: all)

INVENTOR:

Uenoyama, Tsutomu, 1-15-5-903, Ikeda, Kawasaki-ku, Kawasaki-shi, Kanagawa,
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Komiya, Daisaku, 2-4-10, Matsunoki, Suginami-ku, Tokyo, (JP)

Iwasaki, Osamu, 1-36-A201, Tounshincho, Itabashi-ku, Tokyo, (JP)

Etoh, Minoru, 510-1-101, Suenaga, Takatsu-ku, Kawasaki-shi, Kanagawa, (JP)

LEGAL REPRESENTATIVE:

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Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1032213 A2 000830 (Basic)
EP 1032213 A3 040428
EP 1032213 B1 060426

APPLICATION (CC, No, Date): EP 2000103728 000222;

PRIORITY (CC, No, Date): JP 9946217 990224

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-007/50; H04N-007/26

INTERNATIONAL CLASSIFICATION (V8 + ATTRIBUTES):

IPC + Level Value Position Status Version Action Source Office:

H04N-0007/50 A I F B 20060101 20040309 H EP

H04N-0007/26 A I L B 20060101 20040309 H EP

ABSTRACT WORD COUNT: 87

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200035	3048
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CLAIMS B	(English)	200617	598
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CLAIMS B	(German)	200617	543
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CLAIMS B	(French)	200617	756
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SPEC A	(English)	200035	14034
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SPEC B	(English)	200617	12722
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Total word count - document A	17085
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Total word count - document B	14619
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Total word count - documents A + B	31704
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...SPECIFICATION such a circumstance, various compression format conversion techniques have been researched/developed by which digital **video** signals **compressed** in one **compression** format are converted into digital **video** signals **compressed** in another **compression** format. These conventional compression format converting techniques are known from, for instance, Japanese Laid-open...

...the moving picture which has been compressed in the MPEG-2 format and owns the **high resolution** is inputted, whereas the moving picture compressed in the H.263-recommended compression format and owns the **low resolution**. Then, this conventional **converting** technique is featured by that since the motion vector of the MPEG-2 formatted bit...

...SPECIFICATION such a circumstance, various compression format conversion techniques have been researched/developed by which digital **video** signals **compressed** in one **compression** format are converted into digital **video** signals **compressed** in another **compression** format. These conventional compression format converting techniques are known from, for instance, Japanese Laid-open...

...the moving picture which has been compressed in the MPEG-2 format and owns the **high resolution** is inputted, whereas the moving picture compressed in the H.263-recommended compression format and owns the **low resolution**. Then, this conventional **converting** technique is featured by that since the motion vector of the MPEG-2 formatted bit...

14/3,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01176918

System and method for output management

Ausgabeverwaltungssystem und -Verfahren

Système et procede de gestion de sortie

PATENT ASSIGNEE:

AGFA CORPORATION, (2664340), 100 Challenger Road, Ridgefield Park, NJ

07660-2199, (US), (Proprietor designated states: all)

INVENTOR:

Smith, David, 22 Chase Road, Londonderry, NH, (US)

LEGAL REPRESENTATIVE:

De Niel, Marc Alfons Jozef (125961), Agfa-Gevaert N.V. Corporate
Intellectual Property Department 3800 Patent Administration
Septestraat 27, 2640 Mortsel, (BE)

PATENT (CC, No, Kind, Date): EP 1026876 A2 000809 (Basic)
EP 1026876 A3 020327
EP 1026876 B1 050831

APPLICATION (CC, No, Date): EP 2000200391 000207;

PRIORITY (CC, No, Date): US 246646 990208

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-001/32; B41B-019/00; G06K-015/00;
G06K-015/02

ABSTRACT WORD COUNT: 87

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200032	459
CLAIMS B	(English)	200535	502
CLAIMS B	(German)	200535	441
CLAIMS B	(French)	200535	624
SPEC A	(English)	200032	8912
SPEC B	(English)	200535	9096
Total word count - document A			9373
Total word count - document B			10663
Total word count - documents A + B			20036

...SPECIFICATION to another resolution responsive to the press profile. In another embodiment, the modifying step comprises **encoding** the reduced resolution **image** responsive to the press profile. In another embodiment, the modifying step includes **compressing** the reduced resolution **image** responsive to the press profile. In another embodiment, the receiving step comprises receiving by an output manager a **high resolution** image and a **reduced resolution** image. In another embodiment, the method further includes providing the stored print production file to...

...the press profile is received once for each imagesetter/press combination. In another embodiment, the **high resolution** image and the **reduced resolution** image are generated by a raster image processor while the image is processed by the...

...to another resolution responsive to the press profile. In another embodiment, the processor includes an **encoder** for **encoding** the reduced resolution **image** responsive to the press profile. In another embodiment, the processor includes a **compressor** for **compressing** the reduced resolution **image** responsive to the press profile. In another embodiment, the system is an output manager. In...

...input receives the press profile once for each imagesetter/press combination. In another embodiment, the **high resolution** image and the **reduced resolution** image are generated by a raster image processor when the image is processed by the...

...SPECIFICATION to another resolution responsive to the press profile. In another embodiment, the modifying step comprises **encoding** the reduced resolution **image** responsive to the press profile. In another

embodiment, the modifying step includes **compressing** the reduced resolution **image** responsive to the press profile. In another embodiment, the receiving step comprises receiving by an output manager a **high resolution** image and a **reduced resolution** image. In another embodiment, the method further includes providing the stored print production file to...

...the press profile is received once for each imagesetter/press combination. In another embodiment, the **high resolution** image and the **reduced resolution** image are generated by a raster image processor while the image is processed by the...

...to another resolution responsive to the press profile. In another embodiment, the processor includes an **encoder** for **encoding** the reduced resolution **image** responsive to the press profile. In another embodiment, the processor includes a **compressor** for **compressing** the reduced resolution **image** responsive to the press profile. In another embodiment, the system is an output manager. In...

...input receives the press profile once for each imagesetter/press combination. In another embodiment, the **high resolution** image and the **reduced resolution** image are generated by a raster image processor when the image is processed by the...

14/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01143832

Multi-level pixel density reduction for printers
Pixeldichtereduzierung für Multipegelbilder in Druckern
Reduction de densite de pixels a niveaux multiples

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

Wetchler, David M., 13905 NE 7th Circle, Vancouver, WA 98684, (US)

Bauman, Joseph H., 17217 NE 164th Ave., Brush Prairie, WA 98606, (US)

LEGAL REPRESENTATIVE:

Carpmaels & Ransford (101821), 43 Bloomsbury Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 997840 A2 000503 (Basic)
EP 997840 A3 021023

APPLICATION (CC, No, Date): EP 99308593 991029;

PRIORITY (CC, No, Date): US 183317 981030

DESIGNATED STATES: DE; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06K-015/00; G06K-015/02

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200018	433
SPEC A	(English)	200018	2885
Total word count - document A			3318
Total word count - document B			0
Total word count - documents A + B			3318

...SPECIFICATION transmitted to the printer at step 58. In a preferred embodiment, the arrays containing this **image** are **compressed**, using conventional techniques, prior to being transmitted to the printer. In the printer, the arrays...

...of the original pixel. For example, if the array CL(x) corresponds to a printer **resolution** used in the **conversion** in step 36 of 300 dots per inch, each pixel in CL(x) is mapped to four **smaller** pixels, corresponding to a **resolution** of 600 dots per inch. The printer controller 28 controls the print cartridges 16 according to the mapped array elements, as conventionally done for printing at the **higher resolution**. The pixel mapping and print cartridge controlling can be carried out in the printer controller...

14/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01136455

Efficient down conversion system for 2:1 decimation of a video signal
Effizientes Abwartsumwandlungssystem zur 2:1-dezimierung eines Videosignales
Systeme de conversion vers le bas pour decimation 2:1 d'un signal video
PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

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Iaquinto, Michael, 18 Nottingham Lane, Horsham, PA 19044, (US)
Philipps, Larry, 5 Highgate Court, Cherry Hill, NJ 08003, (US)

LEGAL REPRESENTATIVE:

Schwabe - Sandmair - Marx (100951), Stuntzstrasse 16, 81677 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 993198 A2 000412 (Basic)
EP 993198 A3 010131

APPLICATION (CC, No, Date): EP 99119940 991011;

PRIORITY (CC, No, Date): US 169296 981009

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-007/26

ABSTRACT WORD COUNT: 142

NOTE:

Figure number on first page: 2A

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200015	1813
SPEC A	(English)	200015	6043
Total word count - document A			7856
Total word count - document B			0
Total word count - documents A + B			7856

...ABSTRACT A2

An HDTV down conversion system including an apparatus for forming a **low resolution** 2:1 down **converted video** signal from an **encoded video** signal representing a **video image**. The **encoded video** signal is a frequency-domain **transformed high resolution** video signal with motion prediction. The apparatus includes a receiver for receiving **encoded video** signals as a plurality of **high resolution**

frequency-domain video coefficient values. A down conversion filter receives and weights the **high resolution** frequency-domain video coefficient values to form a set of low passed frequency-domain video...
...A decimating processor deletes selected ones of the set of pixel values to provide the **low resolution** video signal.

SPECIFICATION

FIELD OF THE INVENTION

The present invention relates to a decoder which **converts** and formats an **encoded high resolution video** signal, e.g. MPEG-2 **encoded video** signals, to a decoded **lower resolution** output video signal, and more specifically to a 2:1 down conversion system for the...

...SUMMARY OF THE INVENTION

An apparatus for forming a low resolution 2:1 down converted **video** signal from an **encoded video** signal representing a **video image**. The **encoded video** signal is a frequency-domain **transformed high resolution** video signal. The apparatus includes means for receiving **encoded video** signals as a plurality of **high resolution** frequency-domain video coefficient values. A down conversion filter means receives and weights selected ones of the **high resolution** frequency-domain video coefficient values to form a set of frequency-domain video coefficients which...
...A decimating means deletes selected ones of the set of pixel values to provide the **low resolution** video signal.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features and advantages of the...

- CLAIMS 1. An apparatus for forming a low resolution **video** signal from an **encoded video** signal representing a **video image**, the **encoded video** signal being a frequency-domain **transformed high resolution** video signal, the apparatus comprising:
receiving means for receiving the encoded video signal as a corresponding to the previous frame.
12. A method for forming a low resolution **video** signal from an **encoded video** signal representing a **video image**, the **encoded video** signal being a frequency-domain **transformed high resolution** video signal, the method comprising the steps of:
(a) receiving the encoded video signal as...

...pixel values corresponding to the previous frame.

21. An apparatus for forming a low resolution **video** signal from an **encoded video** signal representing a **video image**, the **encoded video** signal being a frequency-domain **transformed high resolution** video signal, the apparatus comprising:
receiving means for receiving the encoded video signal as a...

14/3,K/8 (Item 8 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01136120

Down conversion system using a pre-decimation filter
Abwärtsumsetzungssystem mit einem der Dezimation vorgeschalteten Filter
Systeme d'abaissement de fréquence par filtre de pre-decimation
PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)
INVENTOR:
Hee-Yong , Kim, 3 Saylor Court, Plainsboro, New Jersey 08536, (US)
LEGAL REPRESENTATIVE:
Schwabe - Sandmair - Marx (100951), Stuntzstrasse 16, 81677 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 993196 A2 000412 (Basic)
EP 993196 A3 010822
APPLICATION (CC, No, Date): EP 99117901 990913;
PRIORITY (CC, No, Date): US 169790 981009
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS (V7): H04N-007/26; H04N-007/30; H04N-007/36;
H04N-007/50; H04N-007/01
ABSTRACT WORD COUNT: 162
NOTE:
Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200015	1901
SPEC A	(English)	200015	7807
Total word count - document A			9708
Total word count - document B			0
Total word count - documents A + B			9708

...ABSTRACT A2

An HDTV down conversion system including an apparatus for forming a **low resolution video** signal from an **encoded video** signal representing a **video image** . The **encoded video** signal is a frequency-domain **transformed high resolution** video signal with motion vectors. The apparatus includes a receiver for receiving the **encoded video** signal as a plurality of blocks of **high resolution** frequency-domain video coefficient values. A plurality of blocks comprises a macroblock. A down-conversion filter weights selected ones of the **high resolution** frequency-domain video coefficient values within each block to generate corresponding blocks of filtered frequency...
...selected ones of the second-filtered pixel values within each block to provide blocks of **low resolution** video signal pixel values.

SPECIFICATION

FIELD OF THE INVENTION

The present invention relates to a decoder which **converts** and formats an **encoded high resolution video** signal, e.g. MPEG-2 **encoded video** signals, to a decoded **lower resolution** output video signal, and more specifically to a down conversion system for the decoder.

BACKGROUND...

...THE INVENTION

The present invention is embodied in an apparatus for forming a low resolution **video** signal from an **encoded video** signal representing a **video image** . The **encoded video** signal is a frequency-domain **transformed high resolution** video signal. The apparatus includes a means for receiving the **encoded video** signal as a plurality of blocks of **high resolution** frequency-domain video coefficient values. A down-conversion filter weights selected ones of the **high resolution** frequency-domain video coefficient values within each block to generate

corresponding blocks of filtered frequency of low resolution down sampled video signal pixel values.

According to one aspect of the invention, the decimating...

CLAIMS 1. An apparatus for forming a low resolution video signal from an encoded video signal representing a video image, the encoded video signal being a frequency-domain transformed high resolution video signal, the apparatus comprising:
means for receiving the encoded video signal as a plurality...the frequency domain having the following coefficients:
15. A method for forming a low resolution video signal from an encoded video signal representing a video image, the encoded video signal being a frequency-domain transformed high resolution video signal, the method comprising the steps of:
(a) receiving the encoded video signal as...

14/3,K/9 (Item 9 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01136098

Upsampling filter for a down conversion system

Aufwärtsabtasterfilter für ein Abwärtsumsetzungssystem

Filtre de sur-échantillonnage pour un système d'abaissement de fréquence

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Ohaza Kadoma, Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

Hee-Yong, Kim, 3 Saylor Court, Plainsboro, New Jersey 08536, (US)

Meyer, Edwin, Robert, 1460 Neshaminy Drive, Bensalem, Pennsylvania 19020, (US)

Nainpally, Saiprasad, 781 Atkinson Lane, Langhorne, Pennsylvania 19047, (US)

Phillips, Larry, 5 Highgate Court, Cherry Hill, New Jersey 08003, (US)

LEGAL REPRESENTATIVE:

Schwabe - Sandmair - Marx (100951), Stuntzstrasse 16, 81677 München, (DE)

PATENT (CC, No, Kind, Date): EP 993195 A2 000412 (Basic)

EP 993195 A3 010822

APPLICATION (CC, No, Date): EP 99117484 990910;

PRIORITY (CC, No, Date): US 169297 981009

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-007/26; H04N-007/30; H04N-007/36;

H04N-007/50; H04N-007/01

ABSTRACT WORD COUNT: 227

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200015	1317
SPEC A	(English)	200015	7315
Total word count - document A			8632
Total word count - document B			0
Total word count - documents A + B			8632

SPECIFICATION

FIELD OF THE INVENTION

The present invention relates to a decoder which **converts** and formats an **encoded high resolution video** signal, e.g. MPEG-2 **encoded video** signals, to a decoded **lower resolution** output video signal, and more specifically to an up-sampling filter for the decoder.

BACKGROUND...

...CLAIMS signal for storage in the memory means.

2. An apparatus for forming a set of **low resolution** down-sampled pixel values corresponding to a current frame of a **video** signal from an **encoded video** signal representing a residual **image** of the current frame of the **video** signal, the **encoded video** signal being a frequency-domain **transformed high resolution** video signal, and from a set of down-sampled **low resolution** pixel values corresponding to at least one reference frame of the video signal, the apparatus...

...set of low resolution down-sampled pixel values corresponding to a current frame of a **video** signal from an **encoded video** signal representing a residual **image** of the current frame of the **video** signal, the **encoded video** signal being a frequency-domain **transformed high resolution** video signal, and from a set of down-sampled **low resolution** pixel values corresponding to at least one reference frame of the video signal, the method...

14/3,K/10 (Item 10 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01099161

NON-STALLED REQUESTING TEXTURE CACHE SYSTEM AND METHOD

KEINE BLOCKIERUNG ERFORDERNDES TEXTUR-CACHE-SYSTEM

SYSTEME ET PROCEDE D'ANTEMEMOIRE POUR DEMANDE DE TEXTURE SANS RUPTURE DE RYTHME

PATENT ASSIGNEE:

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ALVES, Jeremy, 600 Rainbow Drive 160, Mountain View, CA 94041, (US)

LEGAL REPRESENTATIVE:

Kack, Jurgen, Dipl.-Ing. et al (93671), Kahler Kack Mollekopf

Patentanwalte Vorderer Anger 239, 86899 Landsberg, (DE)

PATENT (CC, No, Kind, Date): EP 998709 A1 000510 (Basic)

EP 998709 B1 040616

WO 1999053402 991021

APPLICATION (CC, No, Date): EP 99911111 990304; WO 99US4778 990304

PRIORITY (CC, No, Date): US 57628 980409

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS (V7): G06F-013/00; G06F-012/08

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200425	698
CLAIMS B	(German)	200425	636
CLAIMS B	(French)	200425	753
SPEC B	(English)	200425	4387
Total word count - document A			0
Total word count - document B			6474
Total word count - documents A + B			6474

...SPECIFICATION use of these texture mapping techniques, mip (multum in parvo) mapping often is used to **compress** the texture **image** into texture maps of different 'd' levels of **resolution**. During the scan **conversion** phase of rasterization, each of these mip maps of the texture map is pre-computed...

...image in the background of a computer-generated graphical scene, the level of detail is **low**, thereby allowing a **lower resolution** (e.g., d=4) texture map to be used. With less texels needed for the texture filtering, the **lower resolution** texture map results in **lower** system bandwidth requirements. Alternatively, if the graphic image is displayed as a full-size image in the foreground of a graphic scene, a **higher resolution** texture map surface (e.g., d=0) is used, thereby raising the overall system bandwidth...

14/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01069799

VIDEO SIGNAL REPRODUCING DEVICE AND HIERARCHICAL VIDEO SIGNAL DECODER
VIDEOSIGNALWIEDERGABEBERAT UND HIERARCHISCHER VIDEOSIGNALDEKODER
DISPOSITIF DE LECTURE DE SIGNAUX VIDEO ET DECODEUR HIERARCHIQUE DE SIGNAUX VIDEO

PATENT ASSIGNEE:

Matsushita Electric Industrial Co., Ltd., (1855508), 1006, Oaza-Kadoma, Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

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NISHINO, Masakazu, 1-4-26, Kamiichi, Kashiwara-shi Osaka 582-0007, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721), Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 966162 A1 991222 (Basic)
WO 9935853 990715

APPLICATION (CC, No, Date): EP 98961587 981225; WO 98JP5943 981225

PRIORITY (CC, No, Date): JP 982009 980108; JP 98138804 980520

DESIGNATED STATES: DE; FR

INTERNATIONAL PATENT CLASS (V7): H04N-007/46; H04N-005/92

ABSTRACT WORD COUNT: 356

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199951	5842

SPEC A	(English)	199951	15055
Total word count - document A			20897
Total word count - document B			0
Total word count - documents A + B			20897

...ABSTRACT A1

Disclosed is a video signal reproduction apparatus for decoding and reproducing a spatially layered **encoded video** signal, comprising: a first transmit data demodulator which outputs demodulated data by demodulating transmit data...

...a receive channel in the demodulated data is decoded, if identification data, indicating that a **low resolution** bit stream, an **encoded** version of a **low resolution video** signal, and a **high resolution** bit stream, an encoded version of a difference signal taken between a **high resolution** video signal and **low resolution** signal, are multiplexed and modulated together, is recorded in a designated position in the header, the **low resolution** bit stream and the **high resolution** bit stream are separated and output independently and, at the same time, a switch control signal indicating that the **low resolution** bit stream and the **high resolution** bit stream have been separated is output, whereas if only one video signal bit stream...

...bit stream has been output is output; a first high efficiency decoder which decodes the **high resolution** bit stream or the video signal bit stream; a second high efficiency decoder which decodes the **low resolution** bit stream; a **resolution converter** which converts the **low resolution** video signal decoded by the second **high** efficiency decoder into a **high resolution** signal having the same **resolution** as the **high resolution** video signal; and a switch which, when the switch control signal indicates that the **low resolution** bit stream and the **high resolution** bit stream have been separated, adds an output of the first high efficiency encoder and an output of the **resolution converter** pixel by pixel and outputs a **high resolution** video signal and, when the switch control signal indicates that only one video signal bit stream has been output, passes the output of the first high efficiency **encoder** unchanged for output as the **video** signal.

...SPECIFICATION respectively.

In Figure 25, reference numeral 2111 is a resolution converter A, 2112 is a **video signal encoder** A, 2113 is a resolution converter B, 2114 is a **video signal encoder** C, and 2115 is a bit stream multiplexer. The **high resolution** video signal input into the **resolution converter** A 2111 is **resolution converted** and output as a **low resolution video** signal. The **video signal encoder** A 2112 outputs a **low resolution video** signal bit stream by **encoding** the **low resolution video** signal in accordance with MPEG **compression**, and also outputs a **low resolution** video decoded signal by decoding the **low resolution** video signal bit stream in accordance with MPEG compression. The **resolution converter** B 2113 **converts** the **low resolution** video decoded signal to the same **resolution** as the **high resolution** video signal, i.e., the input signal, using a prescribed approximation equation, and outputs the **resolution converted** decoded signal. The **video signal encoder** C 2114 **encodes** the **high resolution video** signal using the MPEG SSP **compression** scheme and outputs a **high resolution** video signal bit stream. The bit stream multiplexer 2115 outputs a compression encoded multiplexed bit stream by multiplexing the **low resolution** video signal bit stream with the **high resolution** video signal bit stream.

by using filters horizontally and vertically, and also outputs a filter information signal...from said resolution converter (B), said low resolution video signal bit stream output from said **video signal encoder** (A), and said **high resolution video** signal bit stream output from said **video signal encoder** (B).

16. A layered **video signal encoding** apparatus comprising:
a resolution converter (A) which resolution converts an input high resolution video signal...
...converted decoded signal by resolution converting said low resolution video decoded signal output from said **video signal encoder** (A) to the same **resolution** as said input **high resolution** video signal by using filters horizontally and vertically, and also outputs a filter information signal...
...converted decoded signal by resolution converting said low resolution video decoded signal output from said **video signal encoder** (A) to the same **resolution** as said input **high resolution** video signal by using filters horizontally and vertically, and also outputs a filter information signal...

14/3,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01064783

Method and apparatus for multi-level iterative filtering of multi-dimensional data structures

Verfahren und System zur iterativen Filterung von multidimensionalen Datenstrukturen

Procede et appareil pour le filtrage iteratif de structures de donnees multidimensionnelles

PATENT ASSIGNEE:

IMEC vzw, (2127350), Kapeldreef 75, B-3001 Leuven Heverlee, (BE),
(Proprietor designated states: all)

INVENTOR:

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Bird, William Edward et al (62355), Bird Goen & Co., Klein Dalenstraat 42A, 3020 Winksele, (BE)

PATENT (CC, No, Kind, Date): EP 938061 A1 990825 (Basic)
EP 938061 B1 030604

APPLICATION (CC, No, Date): EP 99102039 990201;

PRIORITY (CC, No, Date): EP 98200258 980202

DESIGNATED STATES: BE; DE; FI; FR; GB; IT; NL; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06T-005/00

ABSTRACT WORD COUNT: 178

NOTE:

Figure number on first page: 19

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199934	1115
CLAIMS B	(English)	200323	941
CLAIMS B	(German)	200323	916
CLAIMS B	(French)	200323	1098

SPEC A	(English)	199934	19953
SPEC B	(English)	200323	19731
Total word count - document A			21072
Total word count - document B			22686
Total word count - documents A + B			43758

...SPECIFICATION correctness of the image. This initial transmission is preferably carried out at a high data **compression** of the **image** so as to provide high-speed transmission. Subsequently, the image resolution is preferably increasable selectively...

...introducing artefacts at the borders of the local area and the main image. Dividing the **image** into blocks and **compressing** the **image** using the Discrete Cosine Transform (DCT) provides a method of transmitting a **low resolution** image quickly, however, the subsequent **high** fidelity areas may suffer from block artefacts. Using the Discrete Wavelet **Transform** (DWT) each level of **resolution** may be transmitted separately. Maximum resolution requires transmitting all the data derived from the image...

...not require additional transmissions. No currently available system provides both features: rapid transmission of a **low resolution** image followed by transmission of a limited amount of data to provide quick and efficient...

...SPECIFICATION correctness of the image. This initial transmission is preferably carried out at a high data **compression** of the **image** so as to provide **high** -speed transmission. Subsequently, the image **resolution** is preferably increasable selectively, i.e. it should be possible to change the resolution of...

...introducing artefacts at the borders of the local area and the main image. Dividing the **image** into blocks and **compressing** the **image** using the Discrete Cosine Transform (DCT) provides a method of transmitting a **low resolution** image quickly, however, the subsequent **high** fidelity areas may suffer from block artefacts. Using the Discrete Wavelet **Transform** (DWT) each level of **resolution** may be transmitted separately. Maximum resolution requires transmitting all the data derived from the image...

...not require additional transmissions. No currently available system provides both features: rapid transmission of a **low resolution** image followed by transmission of a limited amount of data to provide quick and efficient...

14/3,K/13 (Item 13 from file: 348)
 DIALOG(R) File 348:EUROPEAN PATENTS
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01033058

OPTICAL DISC FOR RECORDING HIGH RESOLUTION AND NORMAL IMAGE, OPTICAL DISC PLAYER, OPTICAL DISC RECORDER, AND PLAYBACK CONTROL INFORMATION GENERATOR

OPTISCHE PLATTE ZUR AUFNAHME VON NORMALEN UND HOCHAUFLOSENDEN BILDERN, SPIELERFUR OPTISCHE PLATTEN, AUFNAHMEGERAT FUR OPTISCHE PLATTEN, INFORMATIONSGENERATOR ZUR WIEDERGABEKONTROLLE

DISQUE OPTIQUE D'ENREGISTREMENT D'IMAGES A HAUTE RESOLUTION ET NORMALES, LECTEUR DE DISQUE OPTIQUE, ENREGISTREUR DE DISQUE OPTIQUE ET GENERATEUR D'INFORMATIONS DE COMMANDE DE LECTURE

PATENT ASSIGNEE:

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(JP)

ISHIHARA, Hideshi, 10-120, Ikuno 1-chome, Katano-shi, Osaka 576-0054,
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PATENT (CC, No, Kind, Date): EP 1011268 A1 000621 (Basic)
WO 9912348 990311

APPLICATION (CC, No, Date): EP 98940632 980831; WO 98JP3873 980831

PRIORITY (CC, No, Date): JP 97234320 970829; JP 97334543 971204

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): H04N-005/92; G11B-007/24; G11B-020/10

ABSTRACT WORD COUNT: 175

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200025	3066
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SPEC A	(English)	200025	25985
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Total word count - document A	29051
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Total word count - document B	0
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Total word count - documents A + B	29051
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...SPECIFICATION a 480P video signal 707 having 720 X 480 pixels. Such a
low resolution 480P **video** signal is **encoded** by an MPEG encoder 708
for 480P into a compression MPEG signal. Then, the compression...

...and a horizontal filter 713 in a 480P/720P up-converter 711, and thus is
converted into a 720P **high resolution** video signal 714. The
original 720P video signal 703 and the 720P **video** signal 714 obtained
by MPEG **encoding** and decoding are differential-calculated by a
calculation circuit 715 in a differential signal processing...

14/3,K/14 (Item 14 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00996788

Apparatus for layered video coding

Vorrichtung zur Videokodierung mit mehreren Schichten

Codage de donnees video a plusieurs niveaux

PATENT ASSIGNEE:

Matsushita Electric Industrial Co., Ltd., (1855508), 1006, Oaza-Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)

INVENTOR:

Takeuchi, Seiichi, Rasyanburu Kori 201, 2-7, Sakaibashi-cho,
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Nishino, Masakazu, 1-4-26, Kamiichi, Kashiwara-shi, Osaka, 582-0007, (JP)

Fujiwara, Yuji, 14-56-506, Takauracho, Nishinomiya-shi, Hyogo, 662-0872,
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Wake, Kazuhiro, 14-15, Oeda Nishimachi, Moriguchi-shi, Osaka, 570-0054,
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 901289 A2 990310 (Basic)
EP 901289 A3 030702

APPLICATION (CC, No, Date): EP 98116684 980903;

PRIORITY (CC, No, Date): JP 97238008 970903; JP 97259613 970925; JP
97268468 971001; JP 97294487 971027

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04N-007/50; H04N-007/26; H04N-007/52

ABSTRACT WORD COUNT: 214

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9910	6096
SPEC A	(English)	9910	17921
Total word count - document A			24017
Total word count - document B			0
Total word count - documents A + B			24017

...SPECIFICATION 5000 and then stores it in image memory 5015. A motion detector 5014 stores the **encoded** frame of the input **video** signal 5000 in the image memory 5015 and also detects the motion of a macroblock unit from the encoded frame, the previously encoded and decoded past reference frame (**high resolution** video signal) in the image memory 5015, and from the reference frame that is the video signal of the same time among the **low resolution** signals which are the outputs of the **resolution converter** 5013. That is, in this motion detection, the motion detector 5014 compares the **encoded** frame of the input **video** signal 5000 with the above-mentioned past reference frame, the above-mentioned reference frame of...

14/3,K/15 (Item 15 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00992770

UPSAMPLING FILTER AND HALF-PIXEL GENERATOR FOR AN HDTV DOWNCONVERSION
SYSTEM

AUFWARTSABTASTERFILTER UND HALBBILDELEMENTGENERATOR FUR ABWARTSUMSETZUNGSSY
STEM FUR HOCHAUFLOSUNGSFERNSEHEN

FILTRE DE SUR-ECHANTILLONNAGE ET GENERATEUR DEMI-PIXELS POUR SYSTEME TVHD
PAR ABAISSEMENT DE FREQUENCE

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD, (216884), 1006, Oaza-Kadoma,
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 908057 A1 990414 (Basic)
EP 908057 B1 040303
WO 1998041029 980917

APPLICATION (CC, No, Date): EP 98910309 980311; WO 98US4757 980311

PRIORITY (CC, No, Date): US 40517 P 970312

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-007/50; H04N-005/44

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200410	1136
CLAIMS B	(German)	200410	1008
CLAIMS B	(French)	200410	1309
SPEC B	(English)	200410	7355
Total word count - document A			0
Total word count - document B			10808
Total word count - documents A + B			10808

...SPECIFICATION decoder for receiving, decoding and conversion of
frequency domain encoded signals, e.g. MPEG-2 **encoded video** signals,
into standard output **video** signals, and more specifically to an
upsampling and half-pixel generator of a decoder which **converts** an
encoded high resolution video signal to a decoded **lower**
resolution output video signal.

BACKGROUND OF THE INVENTION

In the United States a standard, the Advanced...

14/3,K/16 (Item 16 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00975706

IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, AND DATA RECORDING MEDIUM
BILDVERARBEITUNGSVERFAHREN UND VORRICHTUNG UND DATENAUFZEICHNUNGSMEDIUM
PROCEDE ET DISPOSITIF DE TRAITEMENT D'IMAGE ET SUPPORT D'ENREGISTREMENT DE
DONNEES

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza Kadoma,
Kadoma-shi, Osaka-fu, 571, (JP), (Applicant designated States: all)

INVENTOR:

KADONO, Shinya, 5-15-11, Seiwadai, Kitaku, Kobe-shi, Hyogo 651-11, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
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PATENT (CC, No, Kind, Date): EP 971545 A1 000112 (Basic)
WO 9831151 980716

APPLICATION (CC, No, Date): EP 98900183 980109; WO 98JP40 980109

PRIORITY (CC, No, Date): JP 972659 970110

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): H04N-007/34; H04N-007/36

ABSTRACT WORD COUNT: 144

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200002	1529
SPEC A	(English)	200002	18867
Total word count - document A			20396
Total word count - document B			0
Total word count - documents A + B			20396

...SPECIFICATION into an interpolated decoded signal LAg with the same spatial resolution as the high-resolution **image** signal and output to the **encoder** 16 in the **high - resolution** coding section 201H.

Concurrently with this operation, the high-resolution coding section 201H operates like...

14/3,K/17 (Item 17 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00965331

METHOD AND APPARATUS FOR TRANSMITTING, ENCODING AND DECODING VIDEO SIGNAL AND RECORDING/REPRODUCING METHOD OF OPTICAL DISC
VERFAHREN UND VORRICHTUNGZUR UBERTRAGUNG, KODIERUNG UND DEKODIERUNG VON VIDEOSIGNALEN SOWIE AUFZEICHNUNGS- UND WIEDERGABEVERFAHREN FUR OPTISCHE PLATTEN

PROCEDE ET APPAREIL DE TRANSMISSION, CODAGE ET DECODAGE DE SIGNAUX VIDEO, ET D'ENTEGISTREMENT/LECTURE DE DISQUE OPTIQUE

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, 571, (JP), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

FUJIWARA, Yuji, 14-56-506, Takakura-cho, Nishinomiya-shi, Hyogo 662, (JP)
 NISHINO, Masakazu, 1-4-26, Kamiichi, Kashiwara-shi, Osaka 582, (JP)
 TAKEUCHI, Seiichi, 2-7, Sakaibashi-cho, Neyagawa-shi, Osaka 572, (JP)
 WAKE, Kazuhiro, 1-4-40-846, Nonakaminami, Yodogawak-ku, Osaka-shi, Osaka 532, (JP)
 IDE, Akifumi, 1-12-5, Keyakizaka, Kawanishi-shi, Hyogo 666-01, (JP)
 MATSUDA, Toyohiko, 1-1-212, Kozu, Katano-shi, Osaka 556, (JP)
 KOBAYASHI, Masaaki, 2-81-1, Yuyamada, Kawanishi-shi, Hyogo 666-01, (JP)
 NAGAOKA, Yoshitomi, 11-9, Naritaminami-machi, Neyagawa-shi, Osaka 572, (JP)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721), Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 884904 A1 981216 (Basic)
 WO 9825407 980611

APPLICATION (CC, No, Date): EP 97946088 971203; WO 97JP4426 971203

PRIORITY (CC, No, Date): JP 96326612 961206; JP 9773111 970326; JP 97143602 970602; JP 97175433 970701

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): H04N-007/10; H04N-007/32; H04N-007/16; H04N-011/04;

ABSTRACT WORD COUNT: 155

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9851	3313
SPEC A	(English)	9851	15743
Total word count - document A			19056
Total word count - document B			0

Total word count - documents A + B 19056

...SPECIFICATION frame a high-resolution image or an image obtained by increasing the resolution of an **image** obtained by **encoding** and decoding a low-resolution signal. The above decoding method executes decoding with applying motion...

...resolution image and an image obtained by increasing the resolution of a decoded low-resolution **image** .

According to such conventional **encoding** and decoding methods, if the reference image for the motion vector is changed from a **low - resolution** signal to an up- **convert** image, the motion vector becomes less accurate. In addition, since a **high - resolution** signal is directly encoded, the data rate increases during encoding. In addition, due to the ...

14/3,K/18 (Item 18 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00853351

Method and apparatus for changing resolution by direct DCT mapping
Verfahren und Vorrichtung zum Verändern der Auflösung durch direkte DCT
Koeffizienten-Umsetzung

Procede et dispositif pour changer la resolution par conversion DCT directe
PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216880), 1006, Oaza Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Proprietor designated states: all)

INVENTOR:

Kim, Hee-Yong, 3 Saylor Court, Plainsboro, NJ 08536, (US)

LEGAL REPRESENTATIVE:

Marx, Lothar, Dr. (8071), Patentanwälte Schwabe, Sandmair, Marx
Stuntzstrasse 16, 81677 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 786902 A1 970730 (Basic)
EP 786902 B1 040428

APPLICATION (CC, No, Date): EP 97101042 970123;

PRIORITY (CC, No, Date): US 593672 960129

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-007/30

ABSTRACT WORD COUNT: 122

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199707W5	1129
CLAIMS B	(English)	200418	531
CLAIMS B	(German)	200418	510
CLAIMS B	(French)	200418	563
SPEC A	(English)	199707W5	7670
SPEC B	(English)	200418	7769
Total word count - document A			8801
Total word count - document B			9373
Total word count - documents A + B			18174

...SPECIFICATION image.

There are other systems which have been proposed which utilize other transform techniques to **encode** an **image** . For example, Fourier

Transforms and Z-transforms have been used to **encoded images** in the spatial frequency domain. One such system is shown at page 18.3 of...

...Blair Benson, dated 1992, which is incorporated herein by reference for its teachings on digitally **encoding images**. This system utilizes Fourier Transforms to **encode the image**. As in the MPEG standard, this system could be used to **encode images** at different **resolutions**. Thus, the need for the **conversion** between **higher** and **lower resolution** images to provided compatibility between different receivers is also required for these systems.

SUMMARY OF...

...SPECIFICATION image.

There are other systems which have been proposed which utilize other transform techniques to **encode an image**. For example, Fourier Transforms and Z-transforms have been used to **encoded images** in the spatial frequency domain. One such system is shown at page 18.3 of...

...Television Engineering Handbook by K. Blair Benson, dated 1992. This system utilizes Fourier Transforms to **encode the image**. As in the MPEG standard, this system could be used to **encode images** at different **resolutions**. Thus, the need for the **conversion** between **higher** and **lower resolution** images to provided compatibility between different receivers is also required for these systems.

US-5...

14/3,K/19 (Item 19 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00727459

Image conversion apparatus

Bildumsetzungsvorrichtung

Appareil pour la transformation d'images

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, 571, (JP), (Applicant designated States: all)

INVENTOR:

Takahashi, Toshiya, 1-5-107, Akeno-cho, Takatsuki-shi, Osaka-fu 569, (JP)
Boon, Choong Seng, 2-5 Shato morioka no. 416, Touda-cho 4-chome, Moriguchi-shi, Osaka-fu 570, (JP)

LEGAL REPRESENTATIVE:

Eisenfuhr, Speiser & Partner (100151), Martinistrasse 24, 28195 Bremen, (DE)

PATENT (CC, No, Kind, Date): EP 687112 A2 951213 (Basic)
EP 687112 A3 990818

APPLICATION (CC, No, Date): EP 95108710 950607;

PRIORITY (CC, No, Date): JP 94151693 940608; JP 94218632 940913

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS (V7): H04N-007/50; H04N-007/26

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1745

SPEC A	(English)	EPAB95	12707
Total word count - document A			14452
Total word count - document B			0
Total word count - documents A + B			14452

...SPECIFICATION both vertically and horizontally by the first resolution converter 28 (Fig. 2C). The reduced-resolution **image** is **compression coded** by a method of the prior art. However, the side information obtained during data decoding...

...result, if for example the image resolution is reduced to 1/4 the original image **resolution**, the side information for four high **resolution** image blocks corresponds to one **low resolution** image block.

Scaling is possible by, for example, interpolating a central value from the mean...

...resolution compressed image input data is output as is while also outputting the image data **converted** to plural low **resolution compressed image** data, both high and **low resolution** images can be decoded using a single **high resolution** decoding apparatus.

It is noted that the first and second resolution converters 28 and 40 ...

...controller 4 is provided in place of the resolution converters 28 and 40. Whereas the **high resolution compressed image** data is **converted** to **low resolution compressed image** data in the **image** conversion apparatus according to the first embodiment, the transfer rate is converted by changing the quantization level according to the first and second **image coding** units 2A and 3A to control the image quality while holding the resolution constant in...storage capacity. This problem is avoided in the present embodiment of the invention, however, because **high image** quality, **low resolution compressed image** data can be output by means of a simple **conversion** process from the **high resolution compressed image** data, and it is therefore sufficient to store only the **high resolution compressed image** data in the storage unit 5.

The fifth embodiment of an image conversion apparatus according...can also be decoded using a single high resolution decoding apparatus because the high resolution **compressed image** input data is output directly and converted to **compressed image** data of plural **low resolutions**.

By means of an image **conversion** apparatus according to the present invention, the **compressed image** data stored to the storage unit is read as required for conversion to and output...

14/3,K/20 (Item 20 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00723175

A digital recording and reproducing apparatus

Numerische Aufnahme- und Wiedergabevorrichtung

Un appareil d'enregistrement et de reproduction numerique

PATENT ASSIGNEE:

SHARP KABUSHIKI KAISHA, (260710), 22-22 Nagaike-cho, Abeno-ku, Osaka-shi, Osaka-fu 545-0013, (JP), (Proprietor designated states: all)

INVENTOR:

Katayama, Hironobu, 232-22, Seto, Noda-shi, Chiba, (JP)

Nogami, Hiroaki, 4-17-E24-405, Tokiwadaira, Matsudo-shi, Chiba, (JP)
 Shiraishi, Kenichi, 584-6, Noda, Noda-shi, Chiba, (JP)
 LEGAL REPRESENTATIVE:
 Muller, Frithjof E., Dipl.-Ing. (8661), Patentanwälte MULLER & HOFFMANN,
 Innere Wiener Strasse 17, 81667 München, (DE)
 PATENT (CC, No, Kind, Date): EP 683611 A2 951122 (Basic)
 EP 683611 A3 960807
 EP 683611 B1 010829
 APPLICATION (CC, No, Date): EP 95107735 950519;
 PRIORITY (CC, No, Date): JP 94107056 940520
 DESIGNATED STATES: DE; ES; FR; GB
 INTERNATIONAL PATENT CLASS (V7): H04N-005/926; H04N-009/804
 ABSTRACT WORD COUNT: 95
 NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	686
CLAIMS B	(English)	200135	993
CLAIMS B	(German)	200135	967
CLAIMS B	(French)	200135	1198
SPEC A	(English)	EPAB95	8521
SPEC B	(English)	200135	7263
Total word count - document A			9209
Total word count - document B			10421
Total word count - documents A + B			19630

...CLAIMS the temporal resolution wherein, when the compressed low-resolution signal is converted into the band- **compressed** digital SDTV by an **image compression** signal processing technique adopted by the standardized MPEG-2, the **low - resolution** signal including all the I-frames of intraframe codes processed within frame, the P- and...

...from the recorded and reproduced picture of the special playback signal and so that the **low - resolution** signal can be reproduced together with the **high - resolution** signal in the normal playback mode, and wherein as the special playback speed is increased, not only the I-frames of intraframe coded **low - resolution** MPEG-2 signal but also the following P-frames for forward prediction and B-frames...

14/3,K/21 (Item 21 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00697223

Digital LED printer with multiple print imaging modes.

Digitaler LED Drucker mit mehreren Bilddruckarten.

Imprimante digitale LED avec plusieurs systemes d'impression d'images.

PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester New York 14644, (US)
 , (applicant designated states: DE;FR;GB)

INVENTOR:

Corona, Stephen C., 207 Burwell Road, Rochester NY 14617-4836, (US)
 Tien, Paul C., 2419 W. 234th Street, Torrance CA 90501, (US)
 Dir, Gary A., 16 Gateway Road, Fairport NY 14450, (US)
 Duval, David R., 4945 Verde Circle, Lake Montezuma AZ 86342, (US)

Ambalavanar, Samuel D., 20 Morning Woods Lane, Rochester NY 14625, (US)
LEGAL REPRESENTATIVE:

Phillips, Margaret Dawn et al (60332), Rank Xerox Ltd Patent Department
Parkway, Marlow Buckinghamshire SL7 1YL, (GB)
PATENT (CC, No, Kind, Date): EP 663759 A1 950719 (Basic)
APPLICATION (CC, No, Date): EP 95300219 950113;
PRIORITY (CC, No, Date): US 181546 940114
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS (V7): H04N-001/40;
ABSTRACT WORD COUNT: 185

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	458
SPEC A	(English)	EPAB95	2953
Total word count - document A			3411
Total word count - document B			0
Total word count - documents A + B			3411

...SPECIFICATION sublining technique. ESS 18 receives from a computer network or local memory device the binary **video image** data **encoded** in ASCII or any of a variety of **coding** schemes, including bitmaps. This **image** can be of text or graphics of **lower** and **higher resolution**, respectively. The ESS 18 **converts** this image data into binary pixel data and generates several images simultaneously sending the signals...

14/3,K/22 (Item 22 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

00654542

Image frame detection

Bildfelddetektion

Detection du champ d'image

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (Proprietor designated states: all)

INVENTOR:

Mitch, John, c/o Eastman Kodak Company, 343 State Street, Rochester, New
York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Wagner, Karl H., Dipl.-Ing. et al (12561), WAGNER & GEYER Patentanwalte
Gewürzmühlstrasse 5, 80538 München, (DE)

PATENT (CC, No, Kind, Date): EP 629903 A3 950712 (Basic)
EP 629903 B1 030312

APPLICATION (CC, No, Date): EP 94109121 940614;

PRIORITY (CC, No, Date): US 76592 930614

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G03B-027/62

ABSTRACT WORD COUNT: 92

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	427
CLAIMS B	(English)	200311	367
CLAIMS B	(German)	200311	370

CLAIMS B	(French)	200311	448
SPEC A	(English)	EPABF2	10477
SPEC B	(English)	200311	10129
Total word count	- document A		10905
Total word count	- document B		11314
Total word count	- documents A + B		22219

...SPECIFICATION itself effectively blend together.

US-5 157 482 relates to the use of pre-scanned **low resolution** imagery data for synchronizing application of respective scene balance mapping mechanisms during **high resolution** rescan of successive images frames on a continuous film strip. A plurality of color photographic images that have been captured on a continuous film strip are pre-scanned at **low resolution** by an opto-electronic scanning device and processed for storage as a plurality of digitized...

...an opto-electronic scanner in a first direction to obtain a plurality of first digitally **encoded images**. During **high resolution** rescan, the film strip is **translated** in the reverse direction. the **high resolution** imagery data is mapped into image storage memory on the basis of the contents of respective first digitally **encoded images**. During the rescan the mapping process is calibrated on the basis of information contained on...

...film strip other than the notches, such as detected interframe gaps and a correlation of **low resolution** and **high resolution** frame "fingerprints".

DISCLOSURE OF THE INVENTION

It is therefore an object of this invention to...

14/3,K/23 (Item 23 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2006 European Patent Office. All rts. reserv.

00588062

Method and apparatus for transmitting a video signal, and apparatus for receiving a video signal

Verfahren und Anlage zur Übertragung eines Fernsehsignals und Fernsehsignalempfangsanlage

Procede et appareil pour transmettre un signal video et appareil pour recevoir un signal video

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken 210, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Koshiro, Natsuki, c/o Intel. Property Division, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)

Ishikawa, Tatsuya, c/o Intel. Property Division, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)

LEGAL REPRESENTATIVE:

Henkel, Feiler, Hanzel (100401), Mohlstrasse 37, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 578201 A2 940112 (Basic)

EP 578201 B1 981028

APPLICATION (CC, No, Date): EP 93110788 930706;

PRIORITY (CC, No, Date): JP 92177266 920706

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-007/08;

ABSTRACT WORD COUNT: 288

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9844	446
CLAIMS B	(German)	9844	426
CLAIMS B	(French)	9844	622
SPEC B	(English)	9844	2953
Total word count - document A			0
Total word count - document B			4447
Total word count - documents A + B			4447

14/3,K/24 (Item 24 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

00570557

Method and apparatus for contour vector extraction and image enlargement/reduction

Verfahren und Anordnung zum Erzeugen eines Konturvektors und zur Bildvergrößerung/-verkleinerung

Procede et appareil pour l'extraction de vecteurs de contour et pour agrandir/reduire l'image

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Ushida, Katsutoshi, c/o Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

Hara, Teruya, c/o Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick Court High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 554985 A2 930811 (Basic)
EP 554985 A3 930929
EP 554985 B1 990818

APPLICATION (CC, No, Date): EP 93300399 930120;

PRIORITY (CC, No, Date): JP 9213632 920129; JP 9216345 920131; JP 9216346 920131; JP 9216347 920131; JP 9216339 920131; JP 9216341 920131; JP 9216343 920131; JP 9216344 920131

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): G06T-007/40; H04N-001/40

ABSTRACT WORD COUNT: 96

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9933	1473
CLAIMS B	(German)	9933	1313
CLAIMS B	(French)	9933	1716
SPEC B	(English)	9933	14312
Total word count - document A			0
Total word count - document B			18814
Total word count - documents A + B			18814

...SPECIFICATION pixels.

However, in the above-described conventional image processing apparatus, when image data of a **low resolution** is recorded in the form of an image of a **high resolution** (which is internally the expansion/ **compression** process of the **image**), e.g., when the image of 200 dpi is recorded on a sheet of recording...

...be notched because of the simple doubling of each of the pixels. Furthermore, when a **resolution conversion** of about 200 % is performed, e.g., when an image of the G3 **resolution** is **converted** into an image having the G4 resolution which is 200 dpi in both the horizontal ...

14/3,K/25 (Item 25 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00555882
METRIC CONVERSION MECHANISM FOR DIGITAL IMAGES IN A HIERARCHICAL,
MULTI-RESOLUTION, MULTI-USE ENVIRONMENT
METRISCHER UMSETZUNGSMECHANISMUS FUR DIGITALE BILDER IN EINEM
HIERARCHISCHEN MEHRFACHAUFLÖSUNGS- UND MEHRFACHANWENDUNGSUMFELD
SYSTEME DE CONVERSION METRIQUE DESTINEE A DES IMAGES NUMERIQUES SITUEES DANS
UN ENVIRONNEMENT HIERARCHISE A MULTIUTILISATION ET MULTIREOLUTION
PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

WELDY, John, Allan, 2326 St. Paul Boulevard, Rochester, NY 14621, (US)

LEGAL REPRESENTATIVE:

Schmidt, Peter, Dipl.-Ing. et al (50043), KODAK Aktiengesellschaft
Patentabteilung, 70323 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 516826 A1 921209 (Basic)
EP 516826 B1 980610
WO 9211730 920709

APPLICATION (CC, No, Date): EP 92903358 911217; WO 91US9497 911217

PRIORITY (CC, No, Date): US 631709 901221

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS (V7): H04N-001/46; H04N-001/41;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9824	1266
CLAIMS B	(German)	9824	1301
CLAIMS B	(French)	9824	1369
SPEC B	(English)	9824	4925
Total word count - document A			0
Total word count - document B			8861
Total word count - documents A + B			8861

...SPECIFICATION residual image file 29 to reconstruct high resolution image 34, which effectively corresponds to original **image** 21.

A modification of the **encoding** portion of the first embodiment of the present invention is diagrammatically shown in broken lines in Figure 2. Rather than initially decompose the **high resolution** image 21 into **low spatial resolution** image file 23, the color metric of **high resolution** image 21 is **converted** , via metric **conversion** path 22A, into a **high resolution** image 23A having the same color metric of the

output device. The spatial **resolution** of **converted** -metric digitized image 23A is then **reduced** to a **lower** spatial **resolution** , via decomposition path 24A, thereby producing 'modified metric' **low resolution** image file 25, which is stored. It should be noted that the encoding portion of...

...of the invention requires additional processing at metric convert path 24A. Depending upon the spatial **resolution** of the **high resolution** image, the choice of this alternative approach to generating **low resolution** , **converted** metric image file 25 may not be as preferable as the first technique of initially **reducing** the spatial **resolution** prior to **converting** its color metric from a standpoint of processing complexity.

Figure 4 shows an encoding portion...

14/3,K/26 (Item 26 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00521774

Transforms for digital images in a hierarchical environment
Umsetzungen fur digitale Bilder in einer hierarchischen Umgebung
Transformations pour images numeriques dans un environnement hierarchique
PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Weldy, John A., c/o EASTMAN KODAK COMPANY, Patent Department 343 State
Street, Rochester New York 14650, (US)

LEGAL REPRESENTATIVE:

Wagner, Karl H., Dipl.-Ing. et al (12561), WAGNER & GEYER Patentanwalte
Gewurzmuhlstrasse 5, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 520386 A2 921230 (Basic)
EP 520386 A3 930505
EP 520386 B1 960605

APPLICATION (CC, No, Date): EP 92110587 920624;

PRIORITY (CC, No, Date): US 722419 910627

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-001/41;

ABSTRACT WORD COUNT: 150

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	520
CLAIMS B	(English)	EPAB96	550
CLAIMS B	(German)	EPAB96	589
CLAIMS B	(French)	EPAB96	639
SPEC A	(English)	EPABF1	2341
SPEC B	(English)	EPAB96	2334
Total word count - document A			2861
Total word count - document B			4112
Total word count - documents A + B			6973

...SPECIFICATION high resolution display and or printer devices, performs the complex transformation on non-redundant hierarchically **encoded low resolution image** information which is then combined with a **high resolution** residual image component to form the **transformed high resolution** digitized image. More specifically, in the preferred

embodiment, a transform, requiring a series of multi-channel color space transformations, is performed on the hierarchically **encoded low resolution image** information. This particular embodiment **reduces** the number of pixels to be processed through a complex, multi-channel, computational path. The...

...SPECIFICATION high resolution display and or printer devices, performs the complex transformation on non-redundant hierarchically **encoded low resolution image** information which is then combined with a **high resolution** residual image component to form the **transformed high resolution** digitized image. More specifically, in the preferred embodiment, a transform, requiring a series of multi-channel color space transformations, is performed on the hierarchically **encoded low resolution image** information. This particular embodiment **reduces** the number of pixels to be processed through a complex, multi-channel, computational path. The...

14/3,K/27 (Item 27 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00509374

SYSTEM WITH AUXILIARY REMOVABLE MEMORY FOR STORING IMAGE PARAMETER DATA
VORRICHTUNG MIT ABNEHMBAREM ZUSATZSPEICHER ZUM SPEICHERN VON
BILDPARAMETERDATEN

SYSTEME AVEC MEMOIRE AUXILIAIRE AMOVIBLE PERMETTANT DE STOCKER DES DONNEES
DE PARAMETRES D'IMAGES

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
14650-2201, (US), (applicant designated states: DE;FR;GB;NL)

INVENTOR:

PARULSKI, Kenneth, Alan, 14 Catalpa Road, Rochester, NY 14617, (US)
O'BRIEN, Donald, Edward, 2364 Elton Road, Holcomb, NY 14469-9515, (US)
FUNSTON, David, Lee, 117 Tracy Avenue, Batavia, NY 14020, (US)

LEGAL REPRESENTATIVE:

Buff, Michel (14411), KODAK INDUSTRIE Departement Brevets - CRT Zone
Industrielle - B.P. 21, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 503041 A1 920916 (Basic)

EP 503041 B1 980114

WO 9205654 920402

APPLICATION (CC, No, Date): EP 91917547 910912; WO 91US6613 910912

PRIORITY (CC, No, Date): US 582727 900914

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS (V7): H04N-001/21; H04N-001/46; H04N-001/387;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9803	1200
CLAIMS B	(German)	9803	1147
CLAIMS B	(French)	9803	1377
SPEC B	(English)	9803	5766
Total word count - document A			0
Total word count - document B			9490
Total word count - documents A + B			9490

...SPECIFICATION scanner to digitize the respective images that have been captured on the film, each digitized **image** is subjected to a

compression operator that 'down- converts ' a very **high resolution** image file, (e.g., 2048 lines by 3072 pixels/line file) into an iterative set of residue image files and a base, or **low , resolution** file, (e.g. a 512 lines by 768 pixels per line array representative of the **image**). One example of a preferred **compression** operator is described in US-A-4 969 204. As described in that Melynchuck et...

14/3,K/28 (Item 28 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

00480693

Encoding image data

Verfahren zur Kodierung von Bilddaten

Procede a coder des donnees d'image

PATENT ASSIGNEE:

INTERNATIONAL COMPUTERS LIMITED, (233330), ICL House, Putney, London,
SW15 1SW, (GB), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 448226 A2 910925 (Basic)

EP 448226 A3 921209

EP 448226 B1 951227

APPLICATION (CC, No, Date): EP 91301319 910220;

PRIORITY (CC, No, Date): GB 9006080 900317

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS (V7): H04N-001/41;

ABSTRACT WORD COUNT: 201

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	543
CLAIMS B	(English)	EPAB96	605
CLAIMS B	(German)	EPAB96	620
CLAIMS B	(French)	EPAB96	675
SPEC A	(English)	EPABF1	2273
SPEC B	(English)	EPAB96	2324
Total word count - document A			2816
Total word count - document B			4224
Total word count - documents A + B			7040

...SPECIFICATION store the image data, or the time required to transmit the data.

One method of **compressing image** data is described by C. Chamzas and D.L. Duttweiler, "Progressive **encoding** of facsimile **images** using edge decomposition (PED)", Proc. GLOBECOM 1988 pages 1011-1015, 1988. In this method, a **high resolution** image is **converted** into a **low resolution** image, such that each pixel (picture element) of the **low resolution** image corresponds to a group of the pixels in the original image (this group being...

...the same time, a supplementary file is produced, containing the information required to reconstruct the **high resolution** image from the **low resolution image** .

A characteristic of this **compression** technique is that it can be applied repeatedly to the image data, so as to...

...compression technique is applied first to the original image data, to produce a low resolution **image** ; the **compression** is then applied to this low resolution image to produce a still lower resolution image...

...SPECIFICATION store the image data, or the time required to transmit the data.

One method of **compressing image** data is described by C. Chamzas and D.L. Duttweiler, "Progressive encoding of facsimile **images** using edge decomposition (PED)", Proc. GLOBECOM 1988 pages 1011-1015, 1988. In this method, a **high resolution** image is **converted** into a **low resolution** image, such that each pixel (picture element) of the **low resolution** image corresponds to a group of the pixels in the original image (this group being...

...the same time, a supplementary file is produced, containing the information required to reconstruct the **high resolution** image from the **low resolution image** .

A characteristic of this **compression** technique is that it can be applied repeatedly to the image data, so as to...

...compression technique is applied first to the original image data, to produce a low resolution **image** ; the **compression** is then applied to this low resolution image to produce a still lower resolution image...

14/3,K/29 (Item 29 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00399839

Method of and apparatus for editing images
Verfahren und Vorrichtung zum Bildeditieren
Procede et appareil pour l'edition d'images

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

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Hirabayashi, Yasuji, c/o Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)

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PATENT (CC, No, Kind, Date): EP 392753 A2 901017 (Basic)
EP 392753 A3 920122
EP 392753 B1 970102

APPLICATION (CC, No, Date): EP 90303709 900406;

PRIORITY (CC, No, Date): JP 8990072 890410

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-001/387; H04N-001/41;

ABSTRACT WORD COUNT: 81

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	435
CLAIMS B	(English)	EPAB97	406
CLAIMS B	(German)	EPAB97	335
CLAIMS B	(French)	EPAB97	493
SPEC A	(English)	EPABF1	2568
SPEC B	(English)	EPAB97	2753
Total word count - document A			3003
Total word count - document B			3987
Total word count - documents A + B			6990

...SPECIFICATION one set of entropy encoded difference data, said difference data representing the difference between a **low resolution** image and a **high resolution image**; wherein said entropy encoded **low - resolution** data is decoded to perform said displaying and editing steps; and wherein the method further comprises the steps of reconstructing the **high resolution image** by decoding the **encoded low resolution** data and the encoded difference data, and **transforming** the reconstructed **high resolution image** in accordance with the stored procedure data.

The above and other objects and advantages...

...CLAIMS and editing steps; and wherein the method further comprises the steps of reconstructing (807) the **high resolution image** by decoding the **encoded low resolution** data and the encoded difference data, and **transforming** (808) the reconstructed **high resolution image** in accordance with the stored procedure data.

2. An image editing method according to...

...encoded low-resolution data; and wherein the apparatus further comprises means (10) reconstructing (807) the **high resolution image** by decoding the **encoded low resolution** data (201) and the encoded difference data (202, 203), and **transforming** (808) the reconstructed **high resolution image** in accordance with the stored procedure data.

5. An image editing apparatus according to...

14/3,K/30 (Item 30 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00360606

Method and apparatus for decomposing images.

Bildzerlegungsverfahren und -Vorrichtung.

Procede et appareil pour la decomposition d'images.

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (applicant designated states: DE;GB)

INVENTOR:

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Duttweiler, Donald Lars, 34 Circle Drive, Rumson New Jersey 07760, (US)

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PATENT (CC, No, Kind, Date): EP 325373 A2 890726 (Basic)

EP 325373 A3 910717
 APPLICATION (CC, No, Date): EP 89300276 890112;
 PRIORITY (CC, No, Date): US 146998 880122
 DESIGNATED STATES: DE; GB
 INTERNATIONAL PATENT CLASS (V7): H04N-001/415; H04N-001/411;
 ABSTRACT WORD COUNT: 90

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1838
SPEC A	(English)	EPABF1	8118
Total word count - document A			9956
Total word count - document B			0
Total word count - documents A + B			9956

...SPECIFICATION r). Again, the decoding algorithm employed is preferably the one described in the article entitled " **Compression** of Black-White **Images** with Arithmetic **Coding** ", cited above. As indicated above, $D(m,r)$, in this example, represents one of sixteen possible combinations for the current super pixel of the next **higher resolution** replica which is to replace the current **lower resolution** pixel. Accordingly, operational block 1110 causes the tones of the **higher resolution** pixels in the current super pixel to be generated, namely, the tones of $s(k...$

...the test result is YES, conditional branch point 1112 tests to determine whether the current **lower resolution** pixel has the same tone as the previous **lower resolution** pixel on the same line, namely, whether $s(i+1,j+1,r) = s(i+1,j,r)$. If the test result is NO, the current **lower resolution** pixel is at an edge in the current **lower resolution** replica and the supplemental information for substituting the **high resolution** pixels for the **lower resolution** pixel is obtained via steps 1108, 1109 and 1110. If the test result in step 1112 is YES, the current **lower resolution** pixel is not at an edge in the current **lower resolution** replica and, therefore, no supplemental information is available. Operational block 1113 causes the tones of four **high resolution** pixels in the super pixel to be substituted for the current **lower resolution** pixel to be that of the current **lower resolution** pixel, namely, $s(k,n,r+1) = s(k+1,n,r+1) = s(k...$

... $i+1,j+1,r$). Conditional branch point 1114 tests to determine if the current **lower resolution** pixel is in the last column of the current **lower resolution** replica (end of line). If the test result in step 1114 is NO, operational block 1115 causes the column counter for the current **lower resolution** replica to be incremented by 1 by setting $j=j+1$. Thereafter, control is returned...If the test result in step 1116 is NO, operational block 1117 causes the current **lower resolution** replica line counter to be incremented by 1 by setting $i=i+1$. Then, operational block 1118 causes the **lower resolution** column counter to be set to $i=0$ and the **higher resolution** line counter to be set to $k=2i+1$. Operational block 1119 reinitializes the **lower resolution** pixel, namely, by setting $s(i,0,r) = "0"$. Thereafter, control is again returned to...

...end of the current replica. Conditional branch, point 1120 tests to determine whether the original **high resolution** image has been completed, namely, whether $r=0$. If the test result is YES, the original **high resolution** image has been generated and the process is stopped via stop step 1124. However, if...

...index r counter to be incremented, namely, $r=r+1$ for generation of the next **higher resolution** replica for **upgrading** the received image. Operational block 1122 causes updating of $M=2M$, $N=2N$, $s(0...$

...This would indicate that all of the intermediate replicas have been generated and the original **high resolution** image has been generated. Thereafter, the process is stopped via stop step 1124. The recomposed...

14/3,K/31 (Item 31 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00343004

Dual density digital image system.

Digitales Bildsystem mit zwei Dichten.

Systeme d'image numerique a deux densites.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

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Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548

Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 348651 A2 900103 (Basic)

EP 348651 A3 920129

APPLICATION (CC, No, Date): EP 89108810 890517;

PRIORITY (CC, No, Date): US 211646 880627

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS (V7): G06F-015/64;

ABSTRACT WORD COUNT: 138

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	2298
SPEC A	(English)	EPABF1	5431
Total word count - document A			7729
Total word count - document B			0
Total word count - documents A + B			7729

...SPECIFICATION unit 26 to convert the document data to a lower resolution and the higher resolution **image compression** unit 32 to **compress** the digitized document at the **higher resolution**. The **lower resolution** image information is initially stored in the **lower resolution** bit plane memory 28 from which the **lower resolution** image can be displayed on the image display 30 at this time.

The lower resolution...

...data is stored in the lower resolution bit plane memory 28 and displayed on the **image** display 30.

If the **compressed** lower resolution **image** data is unavailable on DASD because the predetermined period has expired, the **image** host processor 48 retrieves the **compressed** higher resolution **image** data stored in optical storage 52. This **compressed** higher resolution **image** data is sent via the network line 38 and communication adapter to the compressed higher resolution data buffer 34. Next the **compressed** higher resolution **image** data is decompressed by the higher resolution image decompression unit 42. The decompressed higher resolution image data is stored in the **higher resolution** bit plane memory 24 and converted to **lower resolution** image data by the **resolution** modification unit 26. Finally, the **lower resolution** data is stored in the **lower resolution** bit plane memory 28 and displayed on the image display 30.

To print a document...

...CLAIMS document scanner for receiving a digitized document image at said first resolution;

- a higher resolution **image** **compression** unit coupled to said **higher resolution** bit plane memory and having an output coupled to said **image** host computer, for **compressing** said first resolution digitized document **image** and outputting a first **compressed image** record to said **image** host computer for storage;

- a first image storage means coupled to said **image** host computer for storing **compressed** records of **images** digitized at said first resolution, said **image** host computer storing said first **compressed image** record in said first **image** storage means;

- a resolution modification means having an input coupled to said **higher resolution** bit plane memory, for **reducing** the **resolution** of said first **resolution** digitized document image to said second resolution and outputting a second **resolution** digitized document image;

- a **lower resolution** bit plane memory in said workstation, having an input coupled to said resolution modification means...

...second resolution digitized document image;

- said image display unit having an input coupled to said **lower resolution** bit plane memory, for receiving said second resolution digitized document image for display;

- a **lower resolution image** **compression** unit coupled to said **lower resolution** bit plane memory and having an output coupled to said **image** host computer, for **compressing** said second resolution digitized document **image** and outputting a second **compressed image** record to said **image** host computer for storage, said second **compressed image** record being smaller in size than said first **compressed image** record;

- a second **image** storage means coupled to said **image** host computer for storing **compressed** records of **images** digitized at said second resolution, said **image** host computer storing said second **compressed image** record in said second **image** storage means;

- a **higher resolution** image decompression means having an input coupled to said image host computer, for receiving and decompressing said first **compressed image** record from said first **image** storage means to restore said first resolution digitized document image;

- an image scaling means having an input coupled to said **higher**

resolution image decompression means, for **converting** said first **resolution** digitized document image into a third resolution digitized document image having said third resolution;
 said...

...said image scaling means, for receiving said third resolution digitized document image for printing;
 a **lower resolution** image decompression means having an input coupled to said image host computer, for receiving and decompressing said second **compressed image** record from said second **image** storage means to restore said second **resolution** digitized document image;
 said **lower resolution** bit plane memory having an input coupled to said **lower resolution** image decompression means, for receiving said second resolution digitized document image for display on said...

...document scanner for receiving a digitized document image at said first resolution;
 a higher resolution **image compression** unit coupled to said higher resolution bit plane memory and having an output coupled to said **image** host computer, for **compressing** said first resolution digitized document **image** and outputting a first **compressed image** record to a **image** host computer for storage;
 a resolution modification means having an input coupled to said **higher resolution** bit plane memory, for **reducing** the **resolution** of said first **resolution** digitized document image to said second resolution and outputting a second **resolution** digitized document image;
 a **lower resolution** bit plane memory in said workstation, having an input coupled to said resolution modification means...

...second resolution digitized document image;
 said image display unit having an input coupled to said **lower resolution** bit plane memory, for receiving said second resolution digitized document image for display;
 a **lower resolution image compression** unit coupled to said **lower resolution** bit plane memory and having an output coupled to said **image** host computer, for **compressing** said second resolution digitized document **image** and outputting a second **compressed image** record to said **image** host computer for storage, said second **compressed image** record being smaller in size than said first **compressed image** record;
 a **higher resolution image** decompression means having an input coupled to said image host computer, for receiving and decompressing said first **compressed image** record from said first **image** storage means to restore said first resolution digitized document image;
 an image scaling means having an input coupled to said **higher resolution** image decompression means, for **converting** said first **resolution** digitized document image into a third resolution digitized document image having said third **resolution** ;
 a **lower resolution** image decompression means having an input coupled to said image host computer, for receiving and decompressing said second **compressed image** record from said second **image** storage means to restore said second **resolution** digitized document image;
 said **lower resolution** bit plane memory having an input coupled to said **lower resolution** image decompression means, for

receiving said second resolution digitized document image for display on said...

14/3,K/32 (Item 32 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00332120

COMPATIBLE WIDESCREEN TELEVISION SYSTEM.

KOMPATIBLES FERNSEHSYSTEM MIT VERGROSSERTEM BILDSEITENVERHALTNIS.

SYSTEME DE TELEVISION A GRAND ECRAN COMPATIBLE.

PATENT ASSIGNEE:

GENERAL ELECTRIC COMPANY, (203902), CN 5312, Princeton, New Jersey 08540,
(US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;NL;SE)

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3AA, (GB)

PATENT (CC, No, Kind, Date): EP 325637 A1 890802 (Basic)
EP 325637 B1 931020
WO 8901274 890209

APPLICATION (CC, No, Date): EP 88906724 880721; WO 88US2404 880721

PRIORITY (CC, No, Date): US 78150 870727

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS (V7): H04N-011/00; H04N-007/06;

ABSTRACT WORD COUNT: 77

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1981
CLAIMS B	(German)	EPBBF1	1131
CLAIMS B	(French)	EPBBF1	1708
SPEC B	(English)	EPBBF1	7802
Total word count - document A			0
Total word count - document B			12622
Total word count - documents A + B			12622

...SPECIFICATION these ends, is presented in US Patent US-A-4,670,783. As disclosed therein, **two** separate transmission channels are utilized to convey complete widescreen picture information. The first channel conveys a **reduced resolution** central picture region **converted** to a standard aspect ratio, while the second channel conveys separated widescreen information including low...

...the overscan region of the horizontal display lines. This approach however produces non-uniform picture **resolution**, as discussed later in this **application**.

In accordance with the principles of the present invention, there are disclosed herein systems and apparatuses for **encoding** and decoding a compatible widescreen **video** signal representing a picture having an aspect ratio greater than the standard 4:3 ratio...

14/3,K/33 (Item 33 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00303982

Image coding system.

Bildkodierungssystem.

Systeme de codage des images.

PATENT ASSIGNEE:

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, (DE)

PATENT (CC, No, Kind, Date): EP 349677 A2 900110 (Basic)
EP 349677 A3 900314
EP 349677 B1 930804

APPLICATION (CC, No, Date): EP 88120701 881210;

PRIORITY (CC, No, Date): JP 88164878 880704

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS (V7): H04N-001/415;

ABSTRACT WORD COUNT: 208

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	299
CLAIMS B	(German)	EPBBF1	271
CLAIMS B	(French)	EPBBF1	349
SPEC B	(English)	EPBBF1	3281
Total word count - document A			0
Total word count - document B			4200
Total word count - documents A + B			4200

...ABSTRACT A2

Image coding system where document retrieval and printing are compatible, comprises first step of dividing a first image into $n \times n$ meshes, second processing step of performing **resolution conversion** of the divided $n \times n$ meshes into one dot and obtaining a second image...
...and final processing step of decoding the first image from the first data and second **image**. Since a part of **code** data of the **coded image** is also provided with **image** for retrieval, and the first, second, third and final processing steps are executed, document retrieval image decoding processing for a display device (**low resolution** device) most requiring **high** speed and image processing for an image printer requiring **resolution** rather than **high** speed are executed in hierarchy, thereby low quality **image** can be obtained from code data of high quality **image**. Consequently high **compression coding** of the high quality **image** utilized in printer output and the document retrieval at high speed by the low quality image utilizing the display device (**low resolution**) are compatible, and the **low** quality image

can be utilized in document retrieval or the like at **high** speed without
resolution conversion.

14/3,K/34 (Item 34 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

00303425

Document image processing system.

Dokumenten-Bildverarbeitungssystem.

Systeme de traitement d'images de document.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

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Malin, Jerald Robert, 709 Madras Lane, Charlotte, N.C. 28211, (US)
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PATENT (CC, No, Kind, Date): EP 320713 A2 890621 (Basic)
EP 320713 A3 911227
EP 320713 B1 940608

APPLICATION (CC, No, Date): EP 88120121 881202;

PRIORITY (CC, No, Date): US 134734 871218

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): H04N-001/21; H04N-001/41; H04N-001/00;
H04N-001/32;

ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	3383
CLAIMS B	(English)	EPBBF1	1587
CLAIMS B	(German)	EPBBF1	1237
CLAIMS B	(French)	EPBBF1	1690
SPEC A	(English)	EPBBF1	4297
SPEC B	(English)	EPBBF1	4280
Total word count - document A			7680
Total word count - document B			8794
Total word count - documents A + B			16474

...SPECIFICATION The low resolution gray scale video image data and the
high resolution black and white **video image** data are then each
compressed by data compression techniques for storage.

The present invention also provides the capability of monitoring...

...SPECIFICATION The low resolution gray scale video image data and the
high resolution black and white **video image** data are then each
compressed by data compression techniques for storage.

The present invention also provides the capability of monitoring...

...CLAIMS into digital black and white video image data of said first

resolution, and

wherein said **image data compression** means includes means for receiving and **compressing** both the gray scale **video image** data of said second resolution and the black and white video image data of said first **resolution** for storage by said **high speed** mass data storage device.

9. The system according to claim 7 including real-time...of said first resolution to black and white video image data of said first resolution,

image data compression means for receiving and **compressing** the **video image** data from said **image** processor means, said **image data compression** means including means for receiving and **compressing** the **lower resolution** gray scale **video image** data from said image processor means, and means for receiving and **compressing** the **higher resolution** black and white video image data from said image processor means,

a high speed data channel (30) for receiving the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution** black and white **video image** data from said **compression** means at a relatively high data transfer rate, and

a high speed mass data storage device (40) connected to said high speed data channel for receiving and storing both the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution** black and white **video image** data.

23. The system according to claim 22 wherein said image processor means includes...

...CLAIMS of said first resolution to black and white video image data of said first resolution,

image data compression means for receiving and **compressing** the **video image** data from said **image** processor means, said **image data compression** means including means for receiving and **compressing** the **lower resolution** gray scale **video image** data from said image processor means, and means for receiving and **compressing** the **higher resolution** black and white video image data from said image processor means,

a high speed data channel (30) for receiving the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution** black and white **video image** data from said **compression** means at a relatively high data transfer rate, and

a high speed mass data storage device (40) connected to said high speed data channel for receiving and storing both the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution** black and white **video image** data.

2. The system according to claim 1, wherein said image processor means includes...

14/3,K/35 (Item 35 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00270208

Method or system for processing image data.

Verfahren oder System zur Verarbeitung von Bilddaten.

Procede ou systeme de traitement de donnees d'images.

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

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Chyo, Kenjiro, 35-34-512 Hamadayama 3-chome, Suginami-ku Tokyo, (JP)
Nonoshita, Hiroshi, 1764-1 Hiyoshihono-cho Kohoku-ku, Yokohama-shi
Kanagawa-ken, (JP)
Shigehara, Yasuhisa, 27-15 Otowa 1-chome Bunkyo-ku, Tokyo, (JP)
Saito, Seiji, 1-441, Ohtsu-cho, 5-chome, Yokosuka-shi Kanagawa-ken, (JP)
Miura, Shigeki, 261-11 Nibutaka-cho, Hachioji-shi Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick
Court High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 262801 A2 880406 (Basic)

EP 262801 A3 890719

EP 262801 B1 921223

APPLICATION (CC, No, Date): EP 87307670 870828;

PRIORITY (CC, No, Date): JP 86204925 860829; JP 86204930 860829; JP
86202702 860830; JP 86202703 860830; JP 86202704 860830; JP 86202705
860830; JP 86202706 860830

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS (V7): H04N-001/387;

ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1831
CLAIMS B	(German)	EPBBF1	1776
CLAIMS B	(French)	EPBBF1	2290
SPEC B	(English)	EPBBF1	8229
Total word count - document A			0
Total word count - document B			14126
Total word count - documents A + B			14126

...SPECIFICATION 25(a) to 25(e).

When multi-level value image data is input from the **image** scanner
208, the **bi** -level value data output from the multi-level/bi-level value
converter 213 is stored...

...by the multi-level/bi-level converter 213 into the multi-level image
data. The **low** - **resolution** multi-level value data in the multi-level
value buffer 216 is **expanded** by the **resolution conversion**
circuit 214 such that the **resolution** thereof matches with the
resolution (dot density) of the bi-level value data. These two...

...the area control buffer 218. As for the photographic area 232, the
output from the **resolution conversion** circuit 214 is selected. As
for the remaining area, the output from the multi-level...

...supplied to the printer 209. As a result, the character area is
expressed by a **high** - **resolution** bi-level value image, and the
photographic area is expressed by the **low** - **resolution** multi-level
value data with 256 gray scale levels.

If the resultant data is to...

14/3,K/36 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00864262

WHOLE CELL ENGINEERING BY MUTAGENIZING A SUBSTANTIAL PORTION OF A STARTING
GENOME, COMBINING MUTATIONS, AND OPTIONALLY REPEATING
INGENIERIE CELLULAIRE COMPLETE PAR MUTAGENESE D'UNE PARTIE SUBSTANTIELLE
D'UN GENOME DE DEPART, PAR COMBINAISON DE MUTATIONS ET EVENTUELLEMENT
REPETITION

Patent Applicant/Assignee:

DIVERSA CORPORATION, 4955 Directors Place, San Diego, CA 92121, US, US
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

SHORT Jay M, 6801 Paseo Delicias, P.O. Box 7214, Rancho Santa Fe, CA
92067-7214, US, US (Residence), US (Nationality), (Designated only for:
US)

Legal Representative:

HAILE Lisa A (agent), Gray Cary Ware & Freidenrich LLP, Suite 1100, 4365
Executive Drive, San Diego, CA 92121-2133, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200196551 A2-A3 20011220 (WO 0196551)

Application: WO 2001US19367 20010614 (PCT/WO US0119367)

Priority Application: US 2000594459 20000614; US 2000677584 20000930

Parent Application/Grant:

Related by Continuation to: US 2000594459 20000614 (CIP); US 2000677584
20000930 (CIP)

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 336587

Fulltext Availability:

Detailed Description

Detailed Description

... Kim, and R. M. Myers, "Radiation hybrid mapping: a somatic cell
genetic method for constructing **high - resolution** maps of mararnalian
chromosomes," Science, vol. 250, pp. 245-250, 1990; S. J. Goss and...
days. The exposed film image is then electronically scanned into a
computer with memory. A **phosphorimager** (Molecular Dynamics, Sunnyvale,
Calif.) or other electronic device can be used for imaging without the...

14/3,K/37 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00743973

Image available

APPARATUS AND METHOD FOR PRODUCING ENHANCED DIGITAL IMAGES

APPAREIL ET PROCEDE DE PRODUCTION D'IMAGES NUMERIQUES AMELIOREES

Patent Applicant/Inventor:

BERNSTEIN Eliot I, Suite 102, 500 S.E. Mizner Boulevard, Boca Raton, FL
33432-6080, US, US (Residence), US (Nationality)

Legal Representative:

BOEHM Douglas A, Foley & Lardner, Firststar Center, 777 East Wisconsin
Avenue, Milwaukee, WI 53202, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200057343 A2 20000928 (WO 0057343)

Application: WO 2000US7772 20000323 (PCT/WO US0007772)

Priority Application: US 99125824 19990324

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 3443

Fulltext Availability:

Detailed Description

Detailed Description

... collection in order to make refinements and/or enhancements thereto.

The image can then be **converted** from a **high resolution image
compression** extension file to a **low resolution** graphic 2 0 or video
image extension file.

The resulting file may then be processed...

14/3,K/38 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00540174

LOW BANDWIDTH ENCODING SCHEME FOR VIDEO TRANSMISSION

SCHEMA DE CODAGE A BANDE PASSANTE ETROITE DESTINE A LA TRANSMISSION VIDEO

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V,

PHILIPS AB,

Inventor(s):

TROVATO Karen I,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200003547 A2 20000120 (WO 0003547)

Application: WO 99IB1202 19990628 (PCT/WO IB9901202)

Priority Application: US 98111564 19980708

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 5467

Fulltext Availability:
Detailed Description

Detailed Description
... such as each leaf on a tree in the scene.

Conventional video processing of an **image** produces an **encoding** of the **image** that is independent of the display that may be used to display the image. In...

...picture-in-picture window. In addition to the inherent inefficiency of this information transfer, the **conversion** of **high resolution** image information for display on a **lower resolution** display, or a **small** area of a **high resolution** display, also requires the use of anti-aliasing filtering techniques to remove the excess information prior to display. In the red brick wall with gray mortar example above, a **low resolution** display with appropriate anti-aliasing will display the wall as a uniform area of an...

14/3,K/39 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00489769 **Image available**
COMPRESSION/DECOMPRESSION ALGORITHM FOR IMAGE DOCUMENTS HAVING TEXT,
GRAPHICAL AND COLOR CONTENT
ALGORITHME DE COMPRESSION/DECOMPRESSION POUR DES DOCUMENTS IMAGES AYANT UN
CONTENU TEXTE, GRAPHIQUE ET COULEUR

Patent Applicant/Assignee:

KURZWEIL EDUCATIONAL SYSTEMS INC,
KURZWEIL Raymond C,
MACKENZIE Kenneth M,
DIONNE Mark S,

Inventor(s):

KURZWEIL Raymond C,
MACKENZIE Kenneth M,
DIONNE Mark S,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9921121 A2 19990429
Application: WO 98US21917 19981019 (PCT/WO US9821917)
Priority Application: US 97955403 19971021

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

Publication Language: English

Fulltext Word Count: 17234

Fulltext Availability:
Claims

Claim

... in accordance with positional information
provided from the converted text file.

30 A method of **compressing** an **image** representation of
is a document having color portions and text portions comprises
the steps of...

...applying an auto-rotate filter to the first file to
correct said file for errors;
 converting said **high resolution** image file into an
optical character recognition file having text information
and positional information corresponding...

...background color
is of the document;
masking portions of said document not corresponding to
the **graphical** portions of the document; and
 compressing said unmasked portions to provide a second
file corresponding to graphical portions of the document...

14/3,K/40 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00484882

**SYSTEM, METHOD AND MEDIUM FOR INCREASING COMPRESSION OF AN IMAGE WHILE
MINIMIZING IMAGE DEGRADATION**

**SYSTEME, PROCEDE ET SUPPORT D'AUGMENTATION DE LA COMPRESSION D'UNE IMAGE
TOUT EN REDUISANT AU MINIMUM LA DEGRADATION DE L'IMAGE**

Patent Applicant/Assignee:

TRIDENT SYSTEMS INC,
HSU Charles C,
SANFORD Mark J,
COX Paul,

Inventor(s):

HSU Charles C,
SANFORD Mark J,
COX Paul,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9916234 A2 19990401
Application: WO 98US20124 19980925 (PCT/WO US9820124)
Priority Application: US 9760169 19970926

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

Publication Language: English

Fulltext Word Count: 4187

Fulltext Availability:

Detailed Description

Detailed Description

... the wavelet transform called the Discrete Wavelet Transform (DWT) has
become a conventional tool for **image** processing and **image**
compression . The DWT is a lossless transform, which is used to form an

orthonormal basis of...

...the wavelet transform is to hierarchically decompose the input signals into a series of successively **lower resolution** reference signals and their associated detail signals. At each level, the reference signals and detailed signals contain the information needed for reconstruction back to the next **higher resolution** level. The Inverse Discrete Wavelet **Transform** (IDWT) is the inverse function of the DWT. The one-dimensional DWT (ID DWT) processing...

14/3,K/41 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00450565 **Image available**

UPSAMPLING FILTER AND HALF-PIXEL GENERATOR FOR AN HDTV DOWNCONVERSION SYSTEM

FILTRE DE SUR-ECHANTILLONNAGE ET GENERATEUR DEMI-PIXELS POUR SYSTEME TVHD PAR ABAISSEMENT DE FREQUENCE

Patent Applicant/Assignee:

MATSUSHITA ELECTRIC INDUSTRIAL CO LTD,
IAQUINTO Michael,
KIM Hee-Yong,
MEYER Edwin Robert,
EGAWA Ren,

Inventor(s):

IAQUINTO Michael,
KIM Hee-Yong,
MEYER Edwin Robert,
EGAWA Ren,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9841029 A1 19980917
Application: WO 98US4757 19980311 (PCT/WO US9804757)
Priority Application: US 9740517 19970312

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP KR SG US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 9934

Fulltext Availability:

Detailed Description

Detailed Description

... decoder for receiving, decoding and conversion of frequency domain encoded signals, e.g. MPEG-2 **encoded video** signals, into standard output **video** signals, and more specifically to an upsampling and half-pixel generator of a decoder which **converts an encoded high resolution video** signal to a decoded **lower resolution** output video signal.

BACKGROUND OF THE INVENTION

In the United States a standard, the Advanced...

14/3,K/42 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00450547 **Image available**

HDTV DOWNCONVERSION SYSTEM

**SYSTEME DE TRANSPOSITION, PAR ABAISSEMENT DE FREQUENCE, DES SIGNAUX DE
TELEVISION A HAUTE DEFINITION (T.V.H.D.)**

Patent Applicant/Assignee:

MATSUSHITA ELECTRIC INDUSTRIAL CO LTD,
KIM Hee-Yong,
NAIMPALLY Saiprasad,
MEYER Edwin Robert,
SITA Richard,
PHILLIPS Larry,
EGAWA Ren,

Inventor(s):

KIM Hee-Yong,
NAIMPALLY Saiprasad,
MEYER Edwin Robert,
SITA Richard,
PHILLIPS Larry,
EGAWA Ren,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9841011 A1 19980917
Application: WO 98US4749 19980311 (PCT/WO US9804749)
Priority Application: US 9740517 19970312

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

CN JP KR SG US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 20266

Fulltext Availability:

Detailed Description

Detailed Description

... decoder for receiving, decoding and conversion of frequency domain
encoded signals, e.g. MPEG-2 **encoded video** signals, into standard
output **video** signals, and more specifically to a decoder which
converts and formats an **encoded high resolution video** signal to
a decoded **lower resolution** output video signal.

BACKGROUND OF THE INVENTION

In the United States a standard, the Advanced...

14/3,K/43 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00347305 **Image available**

PROGRESSIVE TRANSMISSION OF IMAGES

TRANSMISSION PROGRESSIVE D'IMAGES

Patent Applicant/Assignee:

IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY & MEDICINE,
BHARATH Anil,
KITNEY Richard,

Inventor(s):

BHARATH Anil,
KITNEY Richard,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9629818 A1 19960926
Application: WO 96GB623 19960315 (PCT/WO GB9600623)
Priority Application: GB 955469 19950317

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE
KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD
RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 4217

English Abstract

A method for the progressive transmission of images from a server to a workstation comprises **encoding** the **image** in multi-dimensional format, using the orthogonal wavelet transform, and storing the **encoded image** as a digital file on the server. A user requesting the image at a workstation...

...made to the server which sends a "detail" image consisting only of information needed to **upgrade** the **low - resolution** image to a **higher - resolution** image. This approach saves transmitting across the network information that has already been sent in connection with the original **low - resolution** image. The system may be of particular use in the hospital environment, for the transmission...

14/3,K/44 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00341707 **Image available**

TRANSMISSION SYSTEM

SYSTEME DE TRANSMISSION

Patent Applicant/Assignee:

DIGI-MEDIA VISION LIMITED,
HARDING Wilf,
TRIMBOY Neil,

Inventor(s):

HARDING Wilf,
TRIMBOY Neil,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9624219 A1 19960808
Application: WO 96GB154 19960125 (PCT/WO GB9600154)
Priority Application: GB 952006 19950202

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

BR CN JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 2667

Fulltext Availability:

Detailed Description

Detailed Description

... present invention low
resolution digital video images are combined to form a
higher resolution digital **video image** which is then

digitally **compressed** using a standard technique and transmitted requiring the overhead and timing for one video signal to a decoder that decodes the **higher resolution** image as one image and optionally extracts one or more of the **low resolution** images for output
2
optionally converting this **low resolution** image to a **higher resolution** image

A specific embodiment of the invention will now be described by way of an...

14/3,K/45 (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00332200 **Image available**

METHOD AND APPARATUS FOR VISUAL COMMUNICATIONS IN A SCALABLE NETWORK ENVIRONMENT

PROCEDE ET APPAREIL DESTINES AUX COMMUNICATIONS VISUELLES DANS UN ENVIRONNEMENT DE RESEAU A GEOMETRIE VARIABLE

Patent Applicant/Assignee:

PICTURETEL CORPORATION,

Inventor(s):

YUAN Xiancheng,

BACE Matthew M,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9614711 A1 19960517

Application: WO 95US14095 19951101 (PCT/WO US9514095)

Priority Application: US 94333755 19941103

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 18273

Fulltext Availability:

Detailed Description

Detailed Description

... represented on line

90, is contained in a bitstream over lines 96 and the resulting **compressed** high-pass **image** is added to the 30 upsampled lower level **compressed image** in an adder 98 to form a complete (reconstructed) **compressed image** at the current level over a line 100. Thus, it should be clear that the...

...comprises the

bitstream over line 96 from each of the three layers, the 35 lower **resolution** layer 1 information, and the **high** -pass
- 15

information to **upgrade** the lower level **resolution** image which is provided respectively by layers 2 and 3. This method can be called...

14/3,K/46 (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

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00208465 **Image available**

SCENE BALANCE CALIBRATION OF DIGITAL SCANNER

**ETALONNAGE DE LA BALANCE DES COULEURS D'UNE SCENE DANS UN ANALYSEUR
NUMERIQUE**

Patent Applicant/Assignee:

EASTMAN KODAK COMPANY,

Inventor(s):

COSGROVE Patricia Andre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9205668 A1 19920402

Application: WO 91US6578 19910913 (PCT/WO US9106578)

Priority Application: US 90414 19900917

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CA CH DE DK ES FR GB GR IT JP LU NL SE

Publication Language: English

Fulltext Word Count: 4890

Fulltext Availability:

Claims

Claim

... image by means of said opto-electronic device so as to obtain said first digitally **encoded image** having a **high** spatial resolution and a **high** digital encoding **resolution**, and step (b) comprises converting said **high** spatial **resolution** image to a low spatial **resolution** image and processing said **converted low** spatial **resolution** image in accordance with said scene balance mechanism and producing an output representative of the...

14/3,K/47 (Item 12 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00208451

AUXILIARY REMOVABLE MEMORY FOR STORING IMAGE PARAMETER DATA

**MEMOIRE AUXILIAIRE AMOVIBLE PERMETTANT DE STOCKER DES DONNEES DE PARAMETRES
D'IMAGES**

Patent Applicant/Assignee:

EASTMAN KODAK COMPANY,

Inventor(s):

PARULSKI Kenneth Alan,

O'BRIEN Donald Edward,

FUNSTON David Lee,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9205654 A1 19920402

Application: WO 91US6613 19910912 (PCT/WO US9106613)

Priority Application: US 90727 19900914

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AU BE BR CA CH CS DE DK ES FR GB GR IT JP KR LU NL SE SU

Publication Language: English

Fulltext Word Count: 9406

Fulltext Availability:

Detailed Description

Detailed Description

... scanner to
digitize the respective images that have been captured
on the film, each digitized **image** is subjected to a
compression operator that 'down- **converts** ' a very **high**
resolution image file, (e.g., 2048 lines by 3072
pixels/line file) into an iterative set of residue
image files and a base, or **low** , **resolution** file, (e.g.

a 512 lines by 768 pixels per line array representative
of the...

14/3,K/48 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00208266

USE OF PRE-SCANNED LOW RESOLUTION IMAGERY DATA FOR SYNCHRONIZING
APPLICATION OF RESPECTIVE SCENE BALANCE MAPPING MECHANISMS DURING HIGH
RESOLUTION RESCAN OF SUCCESSIVE IMAGES FRAMES ON A CONTINUOUS FILM
STRIP

EMPLOI DE DONNEES D'IMAGES PREANALYSEES DE FAIBLE RESOLUTION DANS UNE
APPLICATION DE SYNCHRONISATION DE MECANISMES DE TOPOGRAPHIE ET
D'EQUILIBRE DE SCENE RESPECTIVE PENDANT UNE REANALYSE A HAUTE
RESOLUTION D'IMAGES SUCCESSIVES SUR UNE BANDE DE PELLICULE CONTINUE

Patent Applicant/Assignee:

EASTMAN KODAK COMPANY,

Inventor(s):

COSGROVE Patrick Andre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9205469 A1 19920402

Application: WO 91US6288 19910905 (PCT/WO US9106288)

Priority Application: US 90420 19900917

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AT BE CA CH DE DK ES FR GB GR IT JP LU NL SE

Publication Language: English

Fulltext Word Count: 7892

English Abstract

...that have been captured on a continuous color photographic film strip
are pre-scanned at **low resolution** and then rescanned at **high**
resolution by an opto-electronic scanning device and processed for
storage as a plurality of digitized...

...an opto-electronic scanner in a first direction to obtain a plurality of
first digitally **encoded images** . During **high resolution** rescan,
the film strip is **translated** in the reverse direction. The **high**
resolution imagery data is mapped into image storage memory on the basis
of the contents of respective first digitally **encoded images** . During
the rescan the mapping process is calibrated on the basis of information
contained on...

...film strip other than the notches, such as detected interframe gaps and
a correlation of **low resolution** and **high resolution** frame
'fingerprints'.

18/5/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00877507

Two dimensional phase correction for segmented k-space magnetic resonance imaging

Zweidimensionale Phasenkorrektur für die bildgebende magnetische Resonanz mit k-Raum Segmentierung

Correction de phase bidimensionnelle pour l' imagerie par resonance magnetique a espace k segmente

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 803740 A1 971029 (Basic)

APPLICATION (CC, No, Date): EP 97301434 970304;

PRIORITY (CC, No, Date): US 638643 960426

DESIGNATED STATES: DE; FR; NL

INTERNATIONAL PATENT CLASS (V7): G01R-033/561;

ABSTRACT EP 803740 A1

A sequence control (40) causes a transmitter (24) and gradient amplifiers (20) to transmit radio frequency excitation and other pulses to induce magnetic resonance in selected dipoles and cause the magnetic resonance to be focused into a series of echoes in each of a plurality of data collection intervals following each excitation. A receiver (38) converts each echo into a data line. Calibration data lines having a close to zero phase-encoding are collected during each of the data collection intervals. The calibration data lines in each data collection interval are zero-filled (86) to generate a complete data set and Fourier transformed (88) into a series of low resolution complex **images** (901)), 902)), ... 90n))), each corresponding to one of the data collection intervals. The low resolution **images** are normalized (92) and their complex conjugates taken (94). Imaging data lines are sorted by a data collection interval and zero-filled (104) to create full data sets. The full data set corresponding to each data sampling interval is Fourier transformed into partial **image** representations (1061)), 1062)), 106n))). Each partial **image** is multiplied (108) by a complex conjugate of the normalized phase correction map (96) to create corrected partial **images** which are summed (112) to generate a composite **image** (114). The composite **images** are density corrected (120).

ABSTRACT WORD COUNT: 214

LEGAL STATUS (Type, Pub Date, Kind, Text):

Assignee:	010418 A1	Transfer of rights to new applicant: Marconi Medical Systems, Inc. (2915231) 595 Miner Road Highland Heights, Ohio 44143 US
Application:	971029 A1	Published application (A1with Search Report ;A2without Search Report)
Refusal:	010829 A1	Date European patent application was refused: 20010216
Examination:	980610 A1	Date of filing of request for examination: 980415

Examination: 991208 A1 Date of dispatch of the first examination
report: 19991020
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9710W4	1214
SPEC A	(English)	9710W4	5742
Total word count - document A			6956
Total word count - document B			0
Total word count - documents A + B			6956

18/5/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01257808

METHOD AND COMPOSITIONS FOR IDENTIFYING ANTI-HIV THERAPEUTIC COMPOUNDS
METHODE ET COMPOSITIONS D'IDENTIFICATION DE COMPOSES THERAPEUTIQUES
ANTI-VIH

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200564008 A1 20050714 (WO 0564008)
 Application: WO 2004US42991 20041222 (PCT/WO US04042991)
 Priority Application: US 2003740694 20031222

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
 DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
 RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL
 PT RO SE SI SK TR
 (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
 (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): C12Q-001/44

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 474028

English Abstract

Methods are provided for identifying anti-HIV therapeutic compounds substituted with carboxyl ester or phosphonate ester groups. Libraries of such compounds are screened optionally using the novel enzyme GS-7340 Ester Hydrolase. Compositions and methods relating to GS-7340 Ester Hydrolase also are provided.

French Abstract

L'invention concerne des methodes permettant d'identifier des composes therapeutiques anti-VIH substitues par des groupes d'ester de phosphonate ou d'ester de carboxyle. Des bibliotheques de tels composes sont criblees, facultativement, au moyen de la nouvelle ester hydrolase GS-7340 enzymatique. Ladite invention a egalement trait a des compositions et a des methodes liees a l'ester hydrolase GS-7340.

Legal Status (Type, Date, Text)

Publication 20050714 A1 With international search report.

Publication 20050714 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20050909 Request for preliminary examination prior to expiration of applicable time limit under Rule 54bis.1(a)

18/5/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01062738

CELLULAR ACCUMULATION OF PHOSPHONATE ANALOGS OF HIV PROTEASE INHIBITOR COMPOUNDS AND THE COMPOUNDS AS SUCH
ACCUMULATION CELLULAIRE D'ANALOGUES DE PHOSPHONATE DE COMPOSES INHIBITEURS DE LA PROTEASE DU VIH

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Patent and Priority Information (Country, Number, Date):
 Patent: WO 200390690 A2-A3 20031106 (WO 0390690)
 Application: WO 2003US12901 20030425 (PCT/WO US03012901)
 Priority Application: US 2002375665 20020426; US 2002375834 20020426; US
 2002375779 20020426; US 2002375622 20020426

Parent Application/Grant:
 Related by Continuation to: US 2002375665 20020426 (CON); US 2002375834
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 (CON)

Designated States:
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 AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
 LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE
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Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 501554

English Abstract

Phosphonate substituted compounds with HIV protease inhibitory properties having use as therapeutics and for other industrial purposes are disclosed. The compositions inhibit HIV protease activity and/or are useful therapeutically for the treatment of AIDS and other antiviral infections, as well as in assays for the detection of HIV protease.

French Abstract

L'invention concerne des composés à substitution phosphonate présentant des propriétés inhibitrices de la protéase du VIH et pouvant être utilisés comme agents thérapeutiques ainsi qu'à d'autres fins industrielles. Ces compositions inhibent l'activité de la protéase du VIH 5 et/ou sont thérapeutiquement utiles pour le traitement du SIDA et d'autres infections virales ainsi que dans des analyses destinées à détecter la protéase du VIH.

Legal Status (Type, Date, Text)

Publication	20031106	A2 Without international search report and to be republished upon receipt of that report.
Examination	20031211	Request for preliminary examination prior to end of 19th month from priority date
Search Rpt	20040624	Late publication of international search report
Republication	20040624	A3 With international search report.
Republication	20040624	A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

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File 248:PIRA 1975-2006/Apr W1
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Set	Items	Description
S1	3376437	VIDEO?? OR IMAGE??? OR GRAPHIC???
S2	1460851	RESOLUTION??
S3	19239	(CONVERT???? OR TRANSFORM???? OR TRANSLAT???? OR CONVERSIO- N?? OR UPGRAD????) (5N) S2
S4	598079	(HIGH OR LARGE??? OR HIGHER) (5N) S2
S5	13368	(INCREASING?? OR BROAD????? OR BOOST??? OR LENGTHEN??? OR - RAIS??? OR EXPAND??? OR MAXIMI????) (5N) S2
S6	69402	(LOW OR LOWER OR LESSER?? OR SMALL???) (5N) S2
S7	20493	(REDUC??? OR DIMINISH???? OR LESSEN???? OR LOWER??? OR MIN- IMIZ????) (5N) S2
S8	103905	(COMPRESS??? OR ENCOD???? OR ENCRYPT???) (5N) S1
S9	125889	COD??? (5N) S1
S10	115956	AU=(ZHANG J? OR ZHANG, J? OR LIU H? OR LIU, H?)
S11	12836	(COMPRESS??? OR ENCOD???? OR ENCRYPT??? OR COD????) (2N) DOM- AIN??
S12	72	S3 AND (S4 OR S5) AND (S6 OR S7) AND (S8 OR S9)
S13	47	RD (unique items)
S14	27	S13 NOT PY>2001
S15	3	S3 AND (S4 OR S5) AND (S6 OR S7) AND S11

S16	2	RD (unique items)
S17	0	S16 NOT S13
S18	111	S3 AND (S4 OR S5) AND (S6 OR S7) AND (COMPRESS??? OR ENCO- D??? OR ENCRYPT???)
S19	68	RD (unique items)
S20	26	S19 NOT S12
S21	19	S20 NOT PY>2001
S22	2	S10 AND S3 AND (S4 OR S5) AND (S6 OR S7)
S23	1	RD (unique items)

14/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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07440025 INSPEC Abstract Number: B2000-01-6135C-174, C2000-01-5260D-100

Title: Fast motion estimation for video resolution down- conversion using spatial-variant filter

Author(s): Wong, J.W.C.; Au, O.C.

Author Affiliation: Dept. of Electr. & Electron. Eng., Hong Kong Univ. of Sci. & Technol., Clear Water Bay, Hong Kong

Conference Title: ISCAS'99. Proceedings of the 1999 IEEE International Symposium on Circuits and Systems VLSI (Cat. No.99CH36349) Part vol.4 p.528-31 vol.4

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA 6 vol. (liv+565+717+568+604+647+527) pp.

ISBN: 0 7803 5471 0 Material Identity Number: XX-1999-01883

U.S. Copyright Clearance Center Code: 0 7803 5471 0/99/\$10.00

Conference Title: ISCAS'99. Proceedings of the 1999 IEEE International Symposium on Circuits and Systems. VLSI

Conference Date: 30 May-2 June 1999 Conference Location: Orlando, FL, USA

Language: English

Subfile: B C

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Title: Fast motion estimation for video resolution down- conversion using spatial-variant filter

Abstract: To convert a **compressed video** sequence to a **lower - resolution compressed video**, one typically needs to decompress the original sequence, down-sample each frame, and recompress it...

... a novel fast motion estimation algorithm is proposed to predict the motion vectors of the **reduced - resolution** video without performing any search. The motion vectors are predicted by applying spatial-variant filters to the motion vectors of the original **compressed high - resolution video**. In simulations, our method outperforms other existing fast predictive algorithms which involve no searching.

...Descriptors: **image coding** ; ...

... **video coding**

...Identifiers: video **resolution down- conversion** ; ...

... **compressed video** sequence...

... **lower - resolution compressed video** ;

14/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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07410768 INSPEC Abstract Number: B2000-01-7510-005, C2000-01-7330-016

Title: A three-dimensional compression scheme based on wavelet transform

Author(s): Wu Yang; Hui Xu; Mengyabg Liao

Author Affiliation: Dept. of Electr. Eng., Wuhan Univ., China

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.3723 p.172-82

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1999 Country of Publication: USA

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U.S. Copyright Clearance Center Code: 0277-786X/99/\$10.00
Conference Title: Wavelet Applications VI
Conference Sponsor: SPIE
Conference Date: 6-8 April 1999 Conference Location: Orlando, FL, USA
Language: English
Subfile: B C
Copyright 1999, IEE

...Abstract: and a second biorthogonal Villa4 filter bank on the slice direction. Then, the S+P **transform** is applied in the **low - resolution** wavelet components and an optimal quantizer is presented after analysis of the quantization noise. We use an optimal bit allocation algorithm, which, instead of eliminating the coefficients of **high - resolution** components in smooth areas, **minimizes** the system reconstruction distortion at a given bit-rate. Finally, to retain high coding efficiency...

... a comprehensive entropy coding method is proposed, in which arithmetic coding method is applied in **high - resolution** components and an adaptive Huffman coding method in **low - resolution** components. Our experimental results are evaluated by several image measures and our 3-D wavelet...

...Descriptors: **image coding** ;

...Identifiers: **low - resolution** wavelet components...

... **high - resolution** components

14/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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07270805 INSPEC Abstract Number: B1999-07-6135C-124, C1999-07-1250M-070

Title: A theorem on PIFS's multiresolution properties

Author(s): Sun Huai-Jiang; Yang Jing-Yu

Author Affiliation: Dept. of Comput., Nanjing Univ. of Sci. & Technol., China

Journal: Chinese Journal of Computers vol.22, no.3 p.335-7

Publisher: Science Press,

Publication Date: March 1999 Country of Publication: China

CODEN: JIXUDT ISSN: 0254-4164

SICI: 0254-4164(199903)22:3L:335:TPMP;1-O

Material Identity Number: B714-1999-004

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Subfile: B C

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...Abstract: Partitioned Iterated Function System) fixed point under some conditions, i.e., the fixed points at **low resolutions** can be obtained from those at **high resolutions** through spatial contraction operator, while the fixed points at **high resolutions** can be obtained from those at **low resolutions** through affine operator, are just justifications of the multiresolution fractal decoding strategy-first obtaining approximate fixed point through iterating at **low resolution** then **increasing resolution** using affine operator, and strict theoretical basis is lacked because strictly speaking, the multiresolution properties...

... points. Further, it is proved theoretically that the result of first iterating k times at **low resolution** and then **increasing resolution**

using affine **transforming** is equivalent to that of direct iterating k+1 times at **high resolution** when the values of all pixels of initial images for the two fractal decoding methods...

... quality of the reconstructed image is not sacrificed, because most iterations are carried out at **low resolution** images.

...Descriptors: **image coding**

14/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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07169027 INSPEC Abstract Number: B1999-03-6250G-043

Title: ESA's quasi-lossless data compression concept

Author(s): Wijmans, W.

Author Affiliation: Spacecraft Control & Data Syst. Div., Eur. Space Agency, Noordwijk, Netherlands

Conference Title: 5th CCSDS Workshop. New Technologies, New Standards (Ref. No.1998/519) p.4/1-6

Publisher: IEE, London, UK

Publication Date: 1998 Country of Publication: UK 104 pp.

Material Identity Number: XX-1999-00061

Conference Title: 5th CCSDS Workshop. New Technologies, New Standards

Conference Sponsor: IEE

Conference Date: 9 Nov. 1998 Conference Location: London, UK

Language: English

Subfile: B

Copyright 1999, IEE

...Abstract: compression ratio; 2) uses sub-band coding techniques to allow progressive transmission of images from **low** to **high resolution**; 3) uses digital wavelet **transform** decorrelation, quantization, embedded zero-tree coder and entropy coder, which allows modular architecture. This concept...

...Descriptors: **image coding** ;

14/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

07021183 INSPEC Abstract Number: B9810-6140C-582, C9810-5260B-348

Title: An adaptive video sub-sampling technique for the conversion between high and low resolution

Author(s): Wong, P.H.W.; Au, O.C.; Wong, J.W.C.; Tourapis, A.

Author Affiliation: Dept. of Electr. & Electron. Eng., Hong Kong Univ. of Sci. & Technol., Kowloon, Hong Kong

Conference Title: ISCAS '98. Proceedings of the 1998 IEEE International Symposium on Circuits and Systems (Cat. No.98CH36187) Part vol.4 p. 281-4 vol.4

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA 6 vol. (xlv+603+489+674+615+557+656) pp.

ISBN: 0 7803 4455 3 Material Identity Number: XX98-01937

U.S. Copyright Clearance Center Code: 0 7803 4455 3/98/\$10.00

Conference Title: ISCAS '98 Proceedings of the 1998 IEEE International Symposium on Circuits and Systems

Conference Date: 31 May-3 June 1998 Conference Location: Monterey, CA, USA

Language: English
Subfile: B C
Copyright 1998, IEE

Title: An adaptive video sub-sampling technique for the conversion between high and low resolution

Abstract: An adaptive sub-sampling technique is proposed for the **conversion** of **high - resolution** video to low- **resolution** video, which will eventually be **converted** back to **high resolution** . This technique can preserve **high** spatial frequency information by exploiting the temporal correlation of stationary regions without any extra storage...

... reduced by a factor of four if the video is to be eventually displayed in **high - resolution** , with **small** degradation in visual quality and peak-signal-to noise ratio. Most of the edge information can be preserved when the **low - resolution** video is **converted** back to **high - resolution** video and significant improvement can be obtained compared with conventional methods.

...Descriptors: **video coding**

...Identifiers: **resolution conversion ;**

14/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

06764300 INSPEC Abstract Number: B9801-6140C-227, C9801-5260B-137

Title: Prediction error dynamic resolution scheme for video coding

Author(s): Nakagawa, A.; Kazui, K.; Morimatsu, E.; Itoh, T.; Matsuda, K.

Journal: ITG-Fachberichte Conference Title: ITG-Fachber. (Germany)
no.143 p.719-23

Publisher: VDE-Verlag,

Publication Date: 1997 Country of Publication: Germany

CODEN: ITGFY ISSN: 0341-0196

SICI: 0341-0196(1997)143L.719:PEDR;1-9

Material Identity Number: M523-97003

Conference Title: Picture Coding Symposium. PCS 97

Conference Sponsor: Deutsche Telekom Bergkom; Heinrich-Hertz-Inst

Conference Date: 10-12 Sept. 1997 Conference Location: Berlin, Germany

Language: English

Subfile: B C

Copyright 1997, IEE

Title: Prediction error dynamic resolution scheme for video coding

Abstract: H.263 is a very powerful **video coding** algorithm for a wide range of input sequences. However, in a highly active scene, a...

... to keep the degradation at a minimum, we propose to introduce a mechanism of dynamic **resolution conversion** of the prediction error. In this scheme, a **high resolution** is selected to encode the prediction error during a **low** -complexity scene, and a **low resolution** is selected to encode it during a high-complexity scene.

...Descriptors: **video coding ;**

...Identifiers: **video coding ; ...**

...dynamic **resolution conversion ;**

14/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

06487657 INSPEC Abstract Number: C9703-4260-022

Title: A texture-mapping approach for the compression of colored 3D triangulations

Author(s): Soucy, M.; Godin, G.; Rioux, M.

Author Affiliation: Inst. for Inf. Technol., Nat. Res. Council of Canada, Ottawa, Ont., Canada

Journal: Visual Computer vol.12, no.10 p.503-14

Publisher: Springer-Verlag,

Publication Date: 1996 Country of Publication: Germany

CODEN: VICOE5 ISSN: 0178-2789

SICI: 0178-2789(1996)12:10L:503:TMAC;1-4

Material Identity Number: J522-97001

Language: English

Subfile: C

Copyright 1997, IEE

...Abstract: compact and realistic descriptions of colored 3D objects using texture mapping on compressed triangulations. A **high - resolution** triangular mesh model is created by integrating measurements from a color 3D laser sensor. Each vertex is attributed with a RGB color value. The **high - resolution** triangulation is **transformed** into a compressed triangulation and a texture map. This map embeds the color information of the vertices removed during the geometric compression and projected on the **lower resolution** triangulation. We describe the algorithm for the rapid and efficient construction of a texture map...

...Descriptors: **image coding** ;

...Identifiers: **high - resolution** triangular mesh model...

... **high - resolution** triangulation...

... **lower resolution** triangulation

14/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05932875 INSPEC Abstract Number: B9506-6430-001

Title: Transmission of wavelet transform coded TV images on a noisy channel

Author(s): Argenti, F.; Benelli, G.; Kutufa, C.

Author Affiliation: Dipartimento di Ingegneria Elettronica, Firenze Univ., Italy

p.386-90 vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1993 Country of Publication: USA 3 vol. 1974 pp.

ISBN: 0 7803 0950 2

U.S. Copyright Clearance Center Code: 0 7803 0950 2/93/\$3.00

Conference Title: Proceedings of ICC '93 - IEEE International Conference on Communications

Conference Sponsor: IEEE Commun. Soc.; IEEE Switzerland Sect

Conference Date: 23-26 May 1993 Conference Location: Geneva, Switzerland

Language: English

Subfile: B

Copyright 1995, IEE

Title: Transmission of wavelet transform coded TV images on a noisy channel

...Abstract: images using the wavelet transform is described. The TV

images are decomposed by the wavelet **transform** into a **lower - resolution** signal and **high** -frequency subbands. Some issues related to the transmission of the **compressed TV images** on a noisy channel are also analyzed. Channel noise can determine synchronization loss if variable...

... images. A technique to recover the synchronization losses is presented. The effects of different channel **coding** techniques on the reconstructed **image** quality are also investigated. Computer simulations have been used to characterize the performance of the...

...Descriptors: **video coding** ;

...Identifiers: **compressed TV images** ;

14/3,K/9 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05783574 INSPEC Abstract Number: B9411-6140C-269, C9411-5260B-220

Title: Resolution conversion method with high image quality preservation

Author(s): Mruetusatorn, S.; Kinoshita, H.; Sakai, Y.

Author Affiliation: Fac. of Eng., Tokyo Inst. of Technol., Japan

Journal: IEICE Transactions on Information and Systems vol.E77-D, no.6 p.686-93

Publication Date: June 1994 Country of Publication: Japan

CODEN: ITISEF ISSN: 0916-8532

Language: English

Subfile: B C

Title: Resolution conversion method with high image quality preservation

Abstract: This paper discusses a new image **resolution conversion** method which **converts** not only spatial **resolution** but also amplitude resolution. This method involves considering impulse responses of image devices and human...

... high image quality. This paper considers a system that digitizes the multilevel input image with **high** spatial **resolution** and **low** amplitude **resolution** using an image scanner, and outputs the image with **low** spatial **resolution** and **high** amplitude **resolution** on a CRT display. The algorithm thus reduces the number of pixels while increasing the...

...Descriptors: **image coding** ;

Identifiers: **resolution conversion** method...

14/3,K/10 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05156529 INSPEC Abstract Number: B9207-6140C-021, C9207-5260B-007

Title: Motion-compensated wavelet transform coding for color video compression

Author(s): Ya-Qin Zhang; Zafar, S.

Author Affiliation: GTE Labs. Inc., Waltham, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.1605, pt.1 p.301-16

Publication Date: 1991 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

Material Identity Number: C574-91198

U.S. Copyright Clearance Center Code: 0277-786X/91/\$4.00
Conference Title: Visual Communications and Image Processing '91: Visual Communication

Conference Sponsor: SPIE

Conference Date: 11-13 Nov. 1991 Conference Location: Boston, MA, USA

Language: English

Subfile: B C

Title: Motion-compensated wavelet transform coding for color video compression

Abstract: A video compression scheme based on the wavelet representation and multi-**resolution** motion estimation is presented. Wavelet **transform** decomposes a video frame into a set of sub-frames with different resolutions corresponding to...

...of the global motion structure of the video signals at different scales. Motion vectors in **higher resolution** are predicted by the motion vectors in the **lower resolution**, and refined at each step. The authors propose a scheme in which the size of...

... local variance distribution in each scaled wavelet. Four variations of the proposed motion-compensated wavelet **video compression** system are presented.

...Identifiers: color **video compression** ;

14/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

04696444 INSPEC Abstract Number: B90056989

Title: A progressive encoding technique for binary images

Author(s): Ireton, M.A.; Xydeas, C.S.

Author Affiliation: Dept. of Electr. Eng., Manchester Univ., UK

Conference Title: IEE Colloquium on 'Low Bit Rate Image Coding' (Digest No.075) p.11/1-4

Publisher: IEE, London, UK

Publication Date: 1990 Country of Publication: UK 66 pp.

Conference Sponsor: IEE

Conference Date: 11 May 1990 Conference Location: London, UK

Language: English

Subfile: B

Title: A progressive encoding technique for binary images

Abstract: A major problem with modern document processing systems which incorporate **high resolution** workstations for displaying images is that the resolution of the stored image is often far...

... be displayed. In contemporary systems an image must be fully decompressed and then have its **resolution transformed** in order to be displayed as required. The authors present a novel technique for performing **compression** of binary **images** which uses progressive **encoding**. The **compression** is noiseless, and the progressive encoding allows a **low resolution** rendition of an image to be reconstructed at a minimal complexity.

Identifiers: binary **image compression** ; ...

... **high resolution** workstations

14/3,K/12 (Item 12 from file: 2)
DIALOG(R)File 2:INSPEC
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02968784 INSPEC Abstract Number: B83002983, C83003157

Title: Optimal image resolution reduction method for predictive compression algorithms

Author(s): Abraham, D.G.

Author Affiliation: IBM Corp., Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.25, no.2 p.548-9

Publication Date: July 1982 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English

Subfile: B C

Title: Optimal image resolution reduction method for predictive compression algorithms

Abstract: A voting technique for **reducing** the **resolution** of image data converts a group of **high resolution** picture elements into a single, **low resolution** picture element by determining whether the **high resolution** picture element group has a majority of white or black picture elements.

14/3,K/13 (Item 13 from file: 2)
DIALOG(R)File 2:INSPEC
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01306786 INSPEC Abstract Number: B71034615

Title: Technique employing a low resolution imaging device to obtain high resolution video data from a line image

Author(s): Murray, P.C.

Issued by: RCA, Princeton, NJ, USA

Publication Date: 1971 Country of Publication: USA 4 pp.

Report Number: TN 887

Language: English

Subfile: B

Title: Technique employing a low resolution imaging device to obtain high resolution video data from a line image

Abstract: This technique **converts** a **low resolution** two dimensional image sensor into a **high resolution** one dimensional line sensor. A line image formed by an optical system is optically widened...

... a manner which will permit a scanning means to develop video data corresponding to the **high resolution** of the original line image. A typical application can be in satellite cameras where the...

Identifiers: **low resolution** imaging device...

... **high resolution** video data from line image...

...line **image encoded** on 2 dimensional sensor

14/3,K/14 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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05366369 E.I. No: EIP99094790940

Title: Fast scheme for altering resolution in the compressed domain

Author: Dugad, Rakesh; Ahuja, Narendra
Corporate Source: Univ of Illinois, Urbana, IL, USA
Conference Title: Proceedings of the 1999 IEEE Computer Society
Conference on Computer Vision and Pattern Recognition (CVPR'99)
Conference Location: Fort Collins, CO, USA Conference Date:
19990623-19990625
E.I. Conference No.: 55543
Source: Proceedings of the IEEE Computer Society Conference on Computer
Vision and Pattern Recognition v 1 1999. p 213-218
Publication Year: 1999
CODEN: PIVRE9 ISSN: 1063-6919
Language: English

...Abstract: of its 8 multiplied by 8 block-DCT coefficients we wish to
obtain a downsized (**lower resolution**) or upsized (**higher resolution**
) version of this frame also in terms of 8 multiplied by 8 block-DCT
coefficients...

...and its prediction (the upsampled image). This is desirable for many
applications based on scalable **encoding** of **video** . (Author abstract) 13
Refs.

Descriptors: *Computer vision; **Image compression** ; **Image** quality;
Cosine transforms; Algorithms; Signal to noise ratio; Computational
complexity; Interpolation; Signal filtering and prediction; **Image coding**
Identifiers: Block-discrete cosine **transforms** (DCT) coefficients;
Altering image **resolutions**

14/3,K/15 (Item 2 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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05306460 E.I. No: EIP99064703791

Title: Three-dimensional compression scheme based on wavelet transform
Author: Yang, Wu; Xu, Hui; Liao, Mengyang
Corporate Source: Wuhan Univ, Hubei, China
Conference Title: Proceedings of the 1999 Wavelet Applications VI
Conference Location: Orlando, FL, USA
E.I. Conference No.: 55110
Source: Proceedings of SPIE - The International Society for Optical
Engineering v 3723 1999. p 172-182
Publication Year: 1999
CODEN: PSISDG ISSN: 0277-786X
Language: English

...Abstract: and a second biorthogonal Villa4 filter bank on the slice
direction. Then, S plus P **transform** is applied in the **low - resolution**
wavelet components and an optimal quantizer is presented after analysis of
the quantization noise. We use an optimal bit allocation algorithm, which,
instead of eliminating the coefficients of **high - resolution** components
in smooth areas, **minimizes** the system reconstruction distortion at a
given bit-rate. Finally, to remain high coding efficiency...

...a comprehensive entropy coding method is proposed, in which arithmetic
coding method is applied in **high - resolution** components and adaptive
Huffman coding method in **low - resolution** components. Our experimental
results are evaluated by several image measures and our 3-D wavelet...

Descriptors: ***Image compression** ; Wavelet transforms; Three
dimensional; **Image** analysis; Correlation methods; Image segmentation;
Digital filters; Spurious signal noise; Algorithms; Image quality

14/3,K/16 (Item 3 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04533591 E.I. No: EIP96103368622

Title: Scalable video coding with adaptive video interpolation
Author: Bayrakeri, Sadik D.; Mersereau, Russell M.
Corporate Source: Georgia Inst of Technology, Atlanta, GA, USA
Conference Title: Proceedings of the 1996 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP. Part 4 (of 6)
Conference Location: Atlanta, GA, USA **Conference Date:** 19960507-19960510

E.I. Conference No.: 45447
Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 4 1996. IEEE, Piscataway, NJ, USA, 96CB35903. p 2132-2135
Publication Year: 1996
CODEN: IPRODJ **ISSN:** 0736-7791
Language: English

Title: Scalable video coding with adaptive video interpolation
Abstract: A two layer scalable video coding scheme based on a spatio-temporal pyramid is presented. The key component is a novel, effective spatio-temporal video interpolator which is proposed to yield the best prediction from the **reduced resolution** layer to the **higher resolution** layer. The proposed video interpolator gives visually correct predicted images and minimizes spatial and the...

...is provided by decoupling of the layers through multistage quantization. The bit rate for the **lower resolution** channel is directly assigned to the **lower resolution** layer. However, the rate for the **higher resolution** channel is distributed between upgrading the **lower resolution** layer and the **higher resolution** layer. The decoupled layers are encoded by an MPEG like coder. The described scheme is...

Descriptors: *Image coding ; Interpolation; Signal filtering and prediction; Vector quantization; Image processing; Errors

Identifiers: Scalable video coding ; Adaptive video interpolation; Spatio-temporal video interpolator; Temporal prediction artifacts; Independent bit allocation; Multistage quantization; Resolution channel

14/3,K/17 (Item 4 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04441463 E.I. No: EIP96073235273

Title: Centering peripheral features in an indoor environment using a binocular log-polar 4 DOF camera head

Author: Peters, Richard Alan II; Bishay, Magued
Corporate Source: Vanderbilt Univ, Nashville, TN, USA
Conference Title: Proceedings of the 1995 International Workshop on Biorobotics: Human-Robot Symbiosis
Conference Location: Tsukuba, Jpn **Conference Date:** 199505
E.I. Conference No.: 44932
Source: Robotics and Autonomous Systems v 18 n 1-2 Jul 1996. p 271-281
Publication Year: 1996
CODEN: RASOEJ **ISSN:** 0921-8890
Language: English

...Abstract: ceiling boundaries. The mapping also substantially reduces the data bandwidth of the input imagery by **transforming** a video **resolution** image into 64 multiplied by 64 pixel multiresolution image. A model matching algorithm detects the wanted object in the LP domain. If the object is in the **low - resolution** periphery of the LP image, the camera must be moved to center the **high - resolution** fovea on the object where stereo-from-vergeance can be used to calculate the distance...

...Descriptors: robots; Computer vision; Computer hardware; Computer software; Stereo vision; Algorithms; Cameras; Signal detection; Computer simulation; **Image coding**

14/3,K/18 (Item 5 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04251718 E.I. No: EIP95092854022

Title: High resolution **standards** conversion of low resolution video

Author: Patti, Andrew J.; Sezan, M. Ibrahim; Tekalp, A. Murat
Corporate Source: Univ of Rochester, Rochester, NY, USA
Conference Title: Proceedings of the 1995 International Conference on Acoustics, Speech, and Signal Processing. Part 4 (of 5)
Conference Location: Detroit, MI, USA Conference Date: 19950509-19950512

E.I. Conference No.: 43559
Source: Image and Multi-Dimensional Signal Processing ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 4 1995. IEEE, Piscataway, NJ, USA, 95CH35732. p 2197-2200
Publication Year: 1995
CODEN: IPRODJ ISSN: 0736-7791
Language: English

Title: High resolution **standards** conversion of low resolution video

...Abstract: of acquiring multiple video frames, a great deal of attention is being directed at creating **high - resolution** (hi-res) imagery from interlaced or **low - resolution** (low-res) video. This is a multi-faceted problem, which generally necessitates standards conversion and hi...

...model is presented which addresses these problems simultaneously. Then, a POCS-based algorithm for generating **high - resolution** imagery from video is delineated. Results with real imagery are included. (Author abstract) 7 Refs.

Descriptors: ***Image** processing; Algorithms; **Image coding**; **Image** reconstruction; Standards; **Image** quality; **Image** sensors; High definition television; Image analysis; Interpolation

Identifiers: **Low resolution** video; **High resolution** standards **conversion**; Multiple video frames; Spatial sampling density; Image acquisition

14/3,K/19 (Item 6 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03760290 E.I. No: EIP93121142618

Title: Conversion of image resolutions for high quality visual communication

Author: Mruetusatorn, Saprangsit; Kinoshita, Hirotsugu; Sakai, Yoshinori
Corporate Source: Tokyo Inst of Technology, Tokyo, Jpn
Source: IEICE Transactions on Information and Systems v E76-D n 2 Feb 1993. p 251-258

Publication Year: 1993

CODEN: 001235 ISSN: 0916-8532

Language: English

Title: Conversion of image resolutions for high quality visual communication

Abstract: This paper discusses the **conversion** of spatial **resolution** (pixel density) and amplitude resolution (levels of brightness) for multilevel images. A source image is...

...video camera, and a converted image is printed by a printer with the capability of **higher** spatial but **lower** amplitude **resolution** than the image input device. In the proposed method, the impulse response of the scanner...

Descriptors: *Image quality; Visual communication; **Image coding** ; Interpolation; **Image** processing; Sensors; Optical resolving power; Image reconstruction; Printing

Identifiers: Image **resolutions** ; **High** quality image; Multilevel image

14/3,K/20 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01613136 ORDER NO: AADNQ-22199

VLSI LOW-POWER DIGITAL SIGNAL PROCESSING

Author: FARAG, EMAD N.

Degree: PH.D.

Year: 1997

Corporate Source/Institution: UNIVERSITY OF WATERLOO (CANADA) (1141)

Source: VOLUME 58/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5545. 287 PAGES

ISBN: 0-612-22199-7

...minimum signed-digit representation. Hence, the number of addition/subtraction operations is minimized.

A subband **coding image compression** algorithm with a simplified filtering structure that requires only addition and subtraction operations has been...

...more into the arena of high-speed analog signals. To be able to do this **high** -speed high- **resolution** analog-to-digital **converters** are required. Sigma-Delta A/D converters have been known for their **high** - **resolution** capabilities using **low** -precision components.

Parallelism by 4x of analog signal processors is applied to the design of...

...programmable, allowing the deactivation of the blocks corresponding to the least significant bits when a **lower resolution** is sufficient. The decimation filter has been designed in a $0.5\mu\text{m}$, 3...

14/3,K/21 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01381368 20000204613

Rate-constrained self-organizing neural maps and efficient psychovisual methods for low bit rate video coding

Ferguson, KL; Allinson, NM

Dept. of Electr. Eng. & Electron., Univ. of Manchester Inst. of Sci. & Technol., GB

Neural Networks for Signal Processing IX: Proceedings of the 1999 IEEE Signal Processing Society Workshop (Cat. No.98TH8468), 23-25 Aug. 1999, Madison, WI, USA1999

Document type: Conference paper Language: English

Record type: Abstract

ISBN: 0-7803-5673-X

Rate-constrained self-organizing neural maps and efficient psychovisual methods for low bit rate video coding

ABSTRACT:

The **video coding** problem is essentially an operational distortion-rate issue where the underlying input pixel data, probability distributions and dimensions are discrete, unknown and not smooth. In the **low bit rate** case the **high resolution** assumptions for vector quantization are not strictly valid and the problem is exacerbated. However, by...

...the central focusing aspects of the visual cortex are incorporated into the model. The resulting **video coding** algorithm is bit rate scalable from 10 k bits per second (bits/s) and provides...

DESCRIPTORS: WAVELET **TRANSFORMS** ; ENTROPY; FREQUENCY DEPENDENCE; **IMAGE RESOLUTION**; LIKELIHOOD; COMPUTER CONFERENCING; **TRANSFORM CODING** ; VECTOR QUANTISATION; **VIDEO CODING** ; VISUAL PERCEPTION; PROBABILITY DISTRIBUTION ; LEARNING...

14/3,K/22 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01263858 I98121023300

Multiresolutional encoding /decoding in embedded image and video coders

Xiong, Z; Kim, B-J; Pearlman, WA

Dept. of Electr. Eng., Hawaii Univ., Honolulu, HI, USA

Hybrid Image and Signal Processing VI, 16 April 1998, Orlando, FL, USA

Proceedings of the SPIE - The International Society for Optical Engineering , v3389, n6, pp41-48, 1998

Document type: Conference paper Language: English

Record type: Abstract

ISSN: 0277-786X

Multiresolutional encoding /decoding in embedded image and video coders

ABSTRACT:

...at different resolutions from one single encoded bitstream, which is already rate scalable for EZW **coders** . Similarly one can decode **video** sequences at different rates and different spatial and temporal resolutions from one bitstream. Furthermore, a layered bitstream can be generated with multiresolutional encoding, from which the **higher resolution** layers can be used to increase the spatial/temporal resolution of the images/video obtained from the **low resolution** layer. In other words, we have achieved full scalability in rate and partial scalability in...

DESCRIPTORS: DECODING; **IMAGE CODING** ; **IMAGE RESOLUTION**; **IMAGE SEQUENCES**; COMPUTER CONFERENCING; TEMPORAL **RESOLUTION** ; SPATIAL **RESOLUTION** ; MULTIMEDIA COMMUNICATION; **TRANSFORM CODING** ; **VIDEO CODING** ; VISUAL DATABASES; WAVELET TRANSFORMS; MULTIMEDIA APPLICATIONS; TELEMEDICINE

14/3,K/23 (Item 3 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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00567877 E92053051028

HDTV image compression for reducing bandwidth and improving received image quality

(Bildkompression beim hochauflösenden Fernsehen zur Verringerung der Bandbreite und zur Verbesserung der Qualität empfangener Bilder)
Dhein, RL; Marcinka, JW
New York Inst. of Technology, Dania, USA
44th Annual Broadcast Engineering Conference Proceedings, Atlanta, USA,
March 30 - April 3, 1990
Document type: Conference paper Language: English
Record type: Abstract
ISBN: 0-89324-086-9

HDTV image compression for reducing bandwidth and improving received image quality

ABSTRACT:

A HDTV image can be subdivided into a **lower - resolution** component and fidelity components. The **lower resolution** components can be scan **converted** and broadcast over a conventional television channel. A method has been developed to transmit most of the visible **high - resolution** information in real time over a 6 MHz augmentation channel. The remaining detail is transferred...

...DESCRIPTORS: HIGH DEFINITION TV; DIGITAL COMMUNICATION; DYNAMIC RANGE **COMPRESSION** ; TELEVISION **IMAGE** ; **IMAGE QUALITY**; TRANSMISSION QUALITY; IMAGE RECONSTRUCTION; S N RATIO; TELEVISION TRANSMISSION; TELEVISION STANDARDS; COLOUR TELEVISION ENGINEERING...

14/3,K/24 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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11721483 PASCAL No.: 94-0586496
A migration path to a better digital television system
LIM J S
Massachusetts inst. technology, dep. electrical engineering computer sci.
, Cambridge MA 02139, USA
Journal: SMPTE journal, 1994, 103 (1) 2-6
Language: English

It is generally accepted that the **resolution** goal for a new **high** -definition television (HDTV) system is to transmit over the air more than 1000 lines with...

... at 60 frames/sec within one single 6-MHz channel. The currently available transmission and **video compression** technologies do not appear to support such a **high video resolution** . As a result, the transmission formats currently being considered for the digital HDTV standard are at a

lower spatial resolution and/or at a lower frame rate than the resolution goal. This article addresses the question of how future developments in the video compression technology can be incorporated to migrate towards the resolution goal in a receiver-compatible manner...

French Descriptors: Transmission donnee; Television haute resolution ;
Conversion signal; Compression signal

14/3,K/25 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
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10818694 PASCAL No.: 93-0328050

Adaptive frame/field motion compensated video coding

Video coding for 10 Mbit/s

ATUL PURI; ARAVIND R; HASKELL B

LEGALL D, ed; MORRISON G, ed; OKUBO S, ed

AT&T Bell Laboratories, Holmdel NJ 07733, USA

Columbia univ., dep. electrical eng., New York NY, USA

Journal: Signal processing. Image communication, 1993, 5 (1-2) 39-58

Language: English

Adaptive frame/field motion compensated video coding

Video coding for 10 Mbit/s

... Motion Pictures Experts Group (MPEG-2) activity is in progress and is primarily aimed at coding of high resolution video with high quality at bit-rates of 4 to 9 Mbit/s. In addition, this phase is...

... the first phase (MPEG-1) standard. For MPEG-2, an adaptive frame/field motion-compensated video coding scheme is proposed. This scheme builds on the proven framework of DCT and motion-compensation based techniques already optimized in MPEG-1 for coding of lower resolution video at low bit-rates. Various adaptations include techniques to improve efficiency of coding for interlaced video source as well as improving quality by better exploitation of characteristics of the video scenes

English Descriptors: Cosine transform ; High resolution ; Signal compression ; Adaptive coding ; Signal processing; Video signal; Compensation; Motion; Quantization

French Descriptors: Transformation cosinus; Haute resolution; Compression signal; Codage adaptatif; Traitement signal; Signal video ; Compensation; Mouvement; Quantification

14/3,K/26 (Item 1 from file: 239)
DIALOG(R)File 239:Mathsci
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03322991 MR 2002j#94005

Efficient generalized cross-validation with applications to parametric image restoration and resolution enhancement.

Nguyen, Nhat (Scientific Computing and Computational Mathematics Program, Stanford University, Stanford, California, 94305)

Milanfar, Peyman (Department of Electrical Engineering, University of California, Santa Cruz, California, 95064)

Golub, Gene (Scientific Computing and Computational Mathematics Program, Stanford University, Stanford, California, 94305)

Corporate Source Codes: 1-STF-CM; 1-UCSC-EE; 1-STF-CM

IEEE Trans. Image Process.
IEEE Transactions on Image Processing, 2001, 10, no. 9, 1299--1308.
ISSN: 1057-7149 CODEN: IIPRE4
Language: English Summary Language: English
Subfile: MR (Mathematical Reviews) AMS
Abstract Length: MEDIUM (24 lines)
Reviewer: Heijmans, Henk J. A. M. (NL-MATH)

...The problem, which is ill-posed, can be stated as follows. Given a set of **low - resolution** frames f_1, \dots, f_p of dimension $M \times N$ and a desired enhancement factor r , find an enhanced or restored **high - resolution** image x of dimension $rM \times rN$. The relation between f_k and x ...

... D is the downsampling, C_k the blurring, and E_k the affine **transform** that maps the **high - resolution** grid to the **low - resolution** one. Furthermore, n_k is the vector representing additive noise. The authors estimate the...

Descriptors: *94A08 -Information and communication, circuits-Communication, information- **Image** processing (**compression** , reconstruction, etc.) (See also 68U10)

14/3,K/27 (Item 2 from file: 239)
DIALOG(R)File 239:Mathsci
(c) 2006 American Mathematical Society. All rts. reserv.

03049933 MR 2000h#68233
A supplementary theorem on the multiresolution properties of partitioned iterated function systems.

Sun, Huai-Jiang (Department of Computer Science, Nanjing University of Science and Technology, Nanjing 210094, Jiangsu, Peoples Republic of China)

Yang, Jing Yu (Department of Computer Science, Nanjing University of Science and Technology, Nanjing 210094, Jiangsu, Peoples Republic of China)

Corporate Source Codes: PRC-NST-C; PRC-NST-C
Chinese J. Comput.
Chinese Journal of Computers. Jisuanji Xuebao, 1999, 22, no. 3, 335--337. ISSN: 0254-4164 CODEN: JIXUDT
Language: Chinese Summary Language: English, Chinese
Subfile: MR (Mathematical Reviews) AMS
Abstract Length: MEDIUM (25 lines)
Reviewer: Summary

...s (PIFS's) fixed points under some conditions (i.e., that the fixed points at **low resolutions** can be obtained from those at **high resolutions** through a spatial contraction operator, while the fixed points at **high resolutions** can be obtained from those at **low resolutions** through an affine operator) are just justifications of the multiresolution fractal decoding strategy---first obtaining an approximate fixed point through iterating at **low resolution**, then **increasing resolution** using an affine operator. A strict theoretical basis is lacking because, strictly speaking, the multiresolution properties hold only for accurate fixed points. We prove that iterating k times at **low resolution** and then **increasing resolution** using affine **transforming** gives the same result as direct iterating $k+1$ times at **high resolution** when the values of all pixels of initial images for the two fractal decoding methods ...

...without sacrificing the quality of the reconstructed image because most iterations are carried out at **low resolution.**''

Descriptors: ...; 94A08 -Information and communication, circuits-Communication, information- **Image** processing (**compression** , reconstruction, etc.) (See also 68U10)

?

21/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

08249124 INSPEC Abstract Number: B2002-06-7990-015, C2002-06-3375-007
Title: Flight motion simulator performance improvements from advanced data acquisition
Author(s): Almendinger, F.J.; Elm, J.P.; Marchetti, J.; Mersch, T.M.
Author Affiliation: Carco Electron., Pittsburgh, PA, USA
Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.4366 p.308-19
Publisher: SPIE-Int. Soc. Opt. Eng.,
Publication Date: 2001 Country of Publication: USA
CODEN: PSISDG ISSN: 0277-786X
SICI: 0277-786X(2001)4366L:308:FMSP;1-Q
Material Identity Number: C574-2001-298
U.S. Copyright Clearance Center Code: 0277-786X/01/\$15.00
Conference Title: Technologies for Synthetic Environments:
Hardware-in-the-Loop Testing VI
Conference Sponsor: SPIE
Conference Date: 16-18 April 2001 Conference Location: Orlando, FL, USA
Language: English
Subfile: B C
Copyright 2002, IEE

Abstract: Advanced in inertial guidance testing place **increasing** demands upon accuracy, **resolution**, and response of motion-based test table and simulators. These test tables are typically controlled...

...loop servomechanisms utilizing precision axis position transducers (e.g. Inductosyns(R)/sup 1/, resolvers, optical **encoders**, etc.) to measure axis motion. A new method of acquiring data from these transducers provides...

... the form of quadrature sinusoids) are sampled and digitized at a high rate using a **high** -speed, high-accuracy, medium- **resolution** data **converter**. These samples are processed digitally using FPGA and DSP technology to produce a **high** -accuracy, high- **resolution** axis measurement at a **lower** sample rate. The resulting axis measurement provides superior accuracy resulting from the minimization of analog...

...Identifiers: optical **encoders** ; ...

...medium- **resolution** data **converter** ; ...

... **high** - **resolution** axis measurement

21/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

08069308 INSPEC Abstract Number: A2001-22-8770E-012, B2001-11-7210G-011, C2001-11-5520-005

Title: A compact data acquisition system for multi-detectors: Time encoding for both time and energy measurement
Author(s): Pinot, L.; Sellem, R.; Cuzon, J.C.; Lesage, A.; Mastrippolito, R.; Valentin, L.
Author Affiliation: Inst. de Phys. Nucl., Orsay, France
Conference Title: 2000 IEEE Nuclear Science Symposium. Conference Record

(Cat. No.00CH37149) Part vol.2 p.12/155-9 vol.2
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2000 Country of Publication: USA 3
vol.(1008+1106+850) pp.
ISBN: 0 7803 6503 8 Material Identity Number: XX-2001-01932
U.S. Copyright Clearance Center Code: 0 7803 6503 8/2001/\$10.00
Conference Title: 2000 IEEE Nuclear Science Symposium. Conference Record
Conference Date: 15-20 Oct. 2000 Conference Location: Lyon, France
Language: English
Subfile: A B C
Copyright 2001, IEE

Title: A compact data acquisition system for multi-detectors: Time encoding for both time and energy measurement

...Abstract: system (transmission, multiplexing-dispatching) and are coded by a Fast Multi-hit Time to Digital **Converter** (FTDC) with a 225 ps **resolution** and a 24 ns dead time. The FTDC runs without trigger and assigns "absolute value..."

... PC board. The system was validated and is currently used for TOHR (French acronym of **High** Resolution Tomograph), a tomograph developed for **high resolution** in vivo imaging adapted to **small** animal models studies. The quadruple coincidences throughput (with 15 detectors) is more than 200,000...

...Identifiers: multidetector time **encoding** ; ...

... **high resolution** tomograph

21/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

06056725 INSPEC Abstract Number: B9511-1265H-011, C9511-5180-008

Title: A 6-bit 50 MHz current-subtracting two step flash converter

Author(s): Cable, A.; Harjani, R.

Author Affiliation: Minnesota Univ., Minneapolis, MN, USA

Conference Title: 1994 IEEE International Symposium on Circuits and Systems (Cat. No.94CH3435-5) Part vol.5 p.465-8 vol.5

Publisher: IEEE, New York, NY, USA

Publication Date: 1994 Country of Publication: USA 6 vol.
(494+644+300+366+794+510) pp.

ISBN: 0 7803 1915 X

Conference Title: Proceedings of IEEE International Symposium on Circuits and Systems - ISCAS '94

Conference Date: 30 May-2 June 1994 Conference Location: London, UK

Language: English

Subfile: B C

Copyright 1995, IEE

...Abstract: described. The two-step current-subtracting technique reduces the number of current comparators and their **resolution** requirements thus **reducing** both area and power. A new design for a high speed current subtracter is presented...

... differential positive feedback technique is used in the current comparators to increase speed while maintaining **high resolution**. The complete A/D **converter**, including **encoding** logic, operates at 50 MHz and dissipates a maximum of 25 mW.

...Identifiers: **encoding** logic

21/3,K/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03776775 INSPEC Abstract Number: C87004536

Title: Online picture viewer GrafCon-ST. II

Author(s): Bass, P.

Journal: Antic: The Atari Resource vol.5, no.4 p.62-3, 95-7

Publication Date: Aug. 1986 Country of Publication: USA

CODEN: ANTCDR ISSN: 0745-2527

Language: English

Subfile: C

...Abstract: p.67 (1986). In the previous article the author listed a program (GrafCon-ST) that **converts** ST pictures between **resolutions** (**low** , medium and **high**) and also converts ST pictures into the RLE (run length **encoded**) format used by CompuServe for their online **high - resolution** graphics. The RLE File Viewer program and the medium **resolution converter** functions in this article complete the GrafCon-ST program C-listings for the Atari are...

...Identifiers: run length **encoded** ; ...

... **high - resolution** graphics...

...medium **resolution converter** functions

21/3,K/5 (Item 5 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

02526168 INSPEC Abstract Number: B80028581, C80018361

Title: Fast synthesised cyclic-parallel analogue-digital convertor

Author(s): Woods, J.V.; Zobel, R.N.

Author Affiliation: Dept. of Computer Sci., Univ. of Manchester, Manchester, UK

Journal: IEE Proceedings G (Electronic Circuits and Systems) vol.127, no.2 p.45-51

Publication Date: April 1980 Country of Publication: UK

CODEN: IPPSDL ISSN: 0143-7089

Language: English

Subfile: B C

...Abstract: than for an all-parallel approach, and the system has potential development in both very- **high** -speed and **higher - resolution** directions. The development of single-chip high-speed-flash convertors will make the cyclic-parallel type of **convertor** attractive by virtue of increased **resolution** with **lower** part count and cost, and by reducing the capacitance driving problem of the all-parallel...

...Descriptors: **encoding**

21/3,K/6 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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2073403 NTIS Accession Number: AD-A342 779/6/XAB

Reduced- Encoding Dynamic Imaging

(Final rept)

Hanson, J. M.
Illinois Univ. at Urbana-Champaign.
Corp. Source Codes: 034597000; 175750
Report No.: AFRL-SR-BL-TR-98-0369
Apr 97 94p
Languages: English Document Type: Thesis
Journal Announcement: GRAI9816
Doctoral thesis.

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NTIS Prices: PC A06/MF A01

Reduced- Encoding Dynamic Imaging

... research addresses the problem of acquiring a time series of magnetic resonance images with both **high** spatial and temporal **resolutions**. Specifically, we systematically investigate the advantages and limitations of reduced- **encoding** imaging using a priori constraints. This study reveals that if the available a priori information...

... However, proper incorporation of the a priori information in the image reconstruction step can significantly **reduce** the **resolution** loss associated with **reduced - encoding**. For Fourier **encoded** data, we have shown that the Generalized-Series (GS) model is an effective mathematical framework...

... the basis functions of the GS model by introducing dynamic information. The two reference reduced- **encoding** imaging by generalized-series reconstruction (TRIGR) method suppresses background information through the use of a second **high resolution** reference image. A second technique injects information from the dynamic data into the GS basis...

... a similarity norm to accurately detect the motion in spite of contrast changes and the **low resolution** nature of the dynamic data.

...Descriptors: Data bases; Algorithms; Fourier transformation; Data management; Signal to noise ratio; Time series analysis; Theses; **High resolution**; Coding; Dynamic programming; Wavelet **transforms**

21/3,K/7 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS
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1897821 NTIS Accession Number: AD-A293 106/1

Growth, Characterization and Device Development in Monocrystalline Diamond Films

(Quarterly technical rept. 1 Jan-31 Mar 95)

Davis, R. F. ; Glass, J. T. ; Nemanich, R. J. ; Ailey, K. S. ; Sivazlian, F. R.

North Carolina State Univ. at Raleigh. Dept. of Materials Science and Engineering.

Corp. Source Codes: 055200033; 408886

Mar 95 55p

Languages: English

Journal Announcement: GRAI9521

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NTIS Prices: PC A04/MF A01

... diamond (100), Cu(100) and Ni(100) via ion beam assisted electron beam evaporation. Fourier **transform** infrared spectroscopy and **high resolution** transmission electron microscopy showed that the total films on Si and diamond consisted of the...

...ion current and thickness. The occurrence of this layer is attributed to increasing intrinsic biaxial **compressive** stress generated during deposition. The interface and surface structure of highly oriented diamond films were examined by **low resolution** transmission electron microscopy (LRTEM), **high resolution** transmission electron microscopy (HRTEM) and using a transmission electron microscope with in situ cathodoluminescence. Interface...

...Descriptors: Fourier transformation; Temperature; Thickness; Infrared spectroscopy; Interfaces; Layers; Growth(General); Electron microscopes; Substrates; Ion beams; **High resolution**; Transmittance; Surfaces; Deposition; Electron beams; Particles; Dislocations; Copper; Silicon; Nickel; Cathodoluminescence; Parallel orientation; Evaporation; Biaxial stresses; Luminescence; **Compressive** strength; Grain boundaries; Ionic current; Boron nitrides

21/3,K/8 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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06318045 E.I. No: EIP03107390082

Title: **A flexible multi-channel high - resolution time-to-digital converter ASIC**

Author: Mota, M.; Christiansen, J.; Debieux, S.; Ryjov, V.; Moreira, P.; Marchioro, A.

Corporate Source: CERN, CH-1211 Geneva-23, Switzerland

Conference Title: 2000 IEEE Nuclear Science Symposium Conference Record

Conference Location: Lyon, France Conference Date: 20001015-20001020

E.I. Conference No.: 60780

Source: IEEE Nuclear Science Symposium and Medical Imaging Conference v 2 2000. p 9/155-9/159 (IEEE cat n 00CH37149)

Publication Year: 2000

CODEN: 85OQAD

Language: English

Title: **A flexible multi-channel high - resolution time-to-digital converter ASIC**

Abstract: A data driven multi-channel Time-to-Digital **Converter** (TDC) circuit with programmable **resolution** (similar to 25ps - 800ps binning) and a dynamic range of 102.4mus has been implemented...

...separated by 24.5ps generated by an adjustable on-chip RC delay line. In the **lower resolution** modes of operation, 32 TDC channels are available. In the highest resolution mode eight channels are available, since four **low - resolution** channels are used to perform a single fine time interpolation. The TDC is capable of...

...initially stored as time stamps in individual four-location deep asynchronous channel buffers. After proper **encoding**, measurements are written into four 256-deep derandomizing FIFO's shared between a 1 channels...

21/3,K/9 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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05346401 E.I. No: EIP99084759857

Title: Application of deterministic dither signals in digital voltmeter with sigma-delta oversampled A/D converter

Author: Badzmirowski, Krzysztof; Jackiewicz, Boguslaw

Corporate Source: Industrial Inst of Electronics, Warsaw, Pol

Conference Title: Proceedings of the 1999 16th IEEE Instrumentation and Measurement Technology Conference, IMTC/99 - Measurements for the new Millenium

Conference Location: Venice, Italy Conference Date: 19990624-19990626

E.I. Conference No.: 55323

Source: Conference Record - IEEE Instrumentation and Measurement Technology Conference v 3 1999. p 1659-1662

Publication Year: 1999

CODEN: CRIIE7

Language: English

...Abstract: peaks, connected with appearance of the specific sequences of output signals, called 'correlation codes', considerably **lowers** effective **resolution** of the **converters** for particular values of stationary input signals. Methods of reduction of those peaks of errors by means of deterministic, self-subtractive dither-signals, used in **high - resolution** digital voltmeter, build with standard, commercially available sigma-delta converter are described in the paper...

Descriptors: *Digital voltmeters; Delta sigma modulation; Error analysis; Signal **encoding**

21/3,K/10 (Item 3 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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04032499 E.I. No: EIP95012509211

Title: High resolution **MUSE-NTSC** converter

Author: Nakayama, H.; Arita, E.; Mizutani, Y.; Tsunashima, K.

Corporate Source: Mitsubishi Electric Co, Kyoto, Jpn

Conference Title: Proceedings of the IEEE International Conference on Consumer Electronics

Conference Location: Chicago, IL, USA Conference Date: 19940621-19940623

E.I. Conference No.: 21510

Source: Digest of Technical Papers - IEEE International Conference on Consumer Electronics 1994. IEEE, Piscataway, NJ, USA, 94CH3363-9. p 2-3

Publication Year: 1994

CODEN: DTPEEL ISSN: 0747-668X

Language: English

Title: High resolution **MUSE-NTSC** converter

...Abstract: of MUSE is analyzed. The result of the analysis is applied to a MUSE-NTSC **conversion** system to achieve the **high resolution**. The system also achieves the **small** circuit amount because of the simplified algorithm. (Author abstract)

Descriptors: *High definition television; Television standards; Signal **encoding**; Code converters; Algorithms; Interpolation; Television picture quality; Nyquist diagrams; Decoding

21/3,K/11 (Item 4 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)
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03052623 E.I. Monthly No: EIM9104-016540

Title: High speed A/D conversion using QMF banks.

Author: Petraglia, Antonio; Mitra, Sanjit K.

Corporate Source: Dept of Electr & Comput Eng, Univ of California, Santa Barbara, CA, USA

Conference Title: 1990 IEEE International Symposium on Circuits and Systems Part 4 (of 4)

Conference Location: New Orleans, LA, USA Conference Date: 19900501

E.I. Conference No.: 14054

Source: Proceedings - IEEE International Symposium on Circuits and Systems v 4. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90CH2868-8). p 2797-2800

Publication Year: 1990

CODEN: PICSDI ISSN: 0271-4310

Language: English

Abstract: A structure for analog-to-digital (A/D) **conversion** capable of attaining **high resolution** and **high speed** using **lower - resolution**, **lower -speed A/D converters** is presented. The structure is based on quadrature mirror filter (QMF) banks, except that the...

...incorporates the advantages of subband coding, and considerably reduces the effect of mismatches among the **low - resolution A/D converters**. An illustrative example and experimental results verifying the good performance of the proposed approach are...

...Descriptors: Signal **Encoding** ; HARMONIC GENERATION...

21/3,K/12 (Item 5 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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01539178 E.I. Monthly No: EI8407061922 E.I. Yearly No: EI84005634

Title: TRACK-AND-HOLDS TAKE FLASH CONVERTERS TO THEIR LIMITS.

Author: Neal, Jerry; Surber, Jim

Corporate Source: Analog Devices Inc, Computer Labs Div, Greenboro, NC, USA

Source: Electronic Design v 32 n 9 May 3 1984 p 381-386, 388

Publication Year: 1984

CODEN: ELODAW ISSN: 0013-4872

Language: ENGLISH

...Abstract: shown how putting a track-and-hold amplifier ahead of a flash analog-to-digital **converter** - even one with a **resolution** as low as 6 bits - **boosts** its accuracy at the maximum input frequency. The improvement in the flash converter's performance...

...show that the improvement is excellent and extends over a wide range of resolutions and **encoding** rates.

21/3,K/13 (Item 1 from file: 35)

DIALOG(R)File 35: Dissertation Abs Online

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01812248 ORDER NO: AADAA-I3002050

A study of floating-point analog-to-digital converters

Author: Thompson, Dwight Ulysses

Degree: Ph.D.
Year: 2001
Corporate Source/Institution: Stanford University (0212)
Source: VOLUME 62/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 447. 109 PAGES
ISBN: 0-493-10988-9

...digital signal processing has resulted in an steadily increasing demand for higher sampling rates and **lower** power dissipation in **high - resolution** analog-to-digital **converters** . Application areas for **high** -speed, high- **resolution** **converters** include wireless communications systems, instrumentation for high-energy physics experiments, radar, and test and measurement...

...pipelined architectures have emerged as an especially attractive approach to implementing Nyquist-rate medium to **high - resolution** A/D **conversion** at medium to high conversion rates with relatively modest power consumption. In addition, floating-point...
...means of providing a large dynamic range in applications where large signals need not be **encoded** with a precision greater than that needed for small signals. Owing to the nonuniform nature...

21/3,K/14 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01470086 ORDER NO: AADAA-I9606871
HIERARCHICAL CODING OF DIGITAL TELEVISION (PYRAMID CODING, KALMAN FILTER)
Author: CHIANG, TIHAO
Degree: PH.D.
Year: 1995
Corporate Source/Institution: COLUMBIA UNIVERSITY (0054)
Source: VOLUME 56/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 6285. 120 PAGES

...HDTV sequence is first decomposed into odd and even fields. The odd fields are first **encoded** using a hybrid predictive/16 x 8 DCT approach. The even fields are interpolated using...

...using the low frequency 8 x 8 DCT coefficients. Motion estimation is performed in the **high resolution** layer. Error drift at the SDTV layer is reduced by introducing predictive leak in the low frequency DCT coefficients of the **low resolution** loop.

The second scheme proposed is based on a spatio-temporal pyramid coding technique. With...

...problem of interlaced-to-interlaced two-layer compatible coding where both layers are interlaced. The **resolution translation** is important for the visual quality of the SDTV layer and for the performance of...

...used to give a better compatible prediction so that the HDTV layer has a high **compression** performance.

In order to offer an improved prediction, systematic analysis of the remaining statistical redundancy...

21/3,K/15 (Item 3 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01439785 ORDER NO: AADAA-I9534098

**DESIGN OF THREE-DIMENSIONAL PHASE ENCODE TIME REDUCED ACQUISITION
SEQUENCES AND DEVELOPMENT OF ADAPTIVE FILTERING FOR HIGH RESOLUTION
MAGNETIC RESONANCE IMAGING OF THE INNER EAR**

Author: YING, KUI

Degree: PH.D.

Year: 1995

Corporate Source/Institution: THE OHIO STATE UNIVERSITY (0168)

Source: VOLUME 56/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3318. 171 PAGES

**DESIGN OF THREE-DIMENSIONAL PHASE ENCODE TIME REDUCED ACQUISITION
SEQUENCES AND DEVELOPMENT OF ADAPTIVE FILTERING FOR HIGH RESOLUTION
MAGNETIC RESONANCE IMAGING OF THE INNER EAR**

High resolution magnetic resonance imaging (MRI) techniques have been developed in this dissertation to study small anatomic...

...the causes of sensorineural hearing loss (SNHL). To achieve optimal image quality and highest spatial **resolution** for three-dimensional Fourier **transform** (3DFT) inner ear imaging, it is necessary to minimize susceptibility dephasing effects by using very...

...for voxel size of less than 1mm, the echo time is limited by the phase **encode** gradients in both in-plane and volume-selection directions. A novel three-dimensional phase **encode** time reduced acquisition (PETRA) method was developed to obtain very short effective echo times by using short triangular shaped phase **encode** gradients to sample the central portions of k-space and progressively longer trapezoidal gradients for...

...use of this pronounced TE reduction, the susceptibility artifacts at air/fluid interfaces are significantly **reduced**. **High resolution** MR images are usually limited by low signal-to-noise ratio (SNR).

In this dissertation...

...dimensional averaged least mean square (TDALMS) when Gaussian noise is predominant. The SNR improvement of **high resolution** images was in the range of 1.8-2.8 using the new method. The...

21/3,K/16 (Item 4 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01276431 ORDER NO: AAD93-04938

**SIGMA DELTA MODULATORS: OPTIMAL DECODING ALGORITHMS AND STABILITY ANALYSIS
(OVERSAMPLED NOISE SHAPING, DIGITAL APPROXIMATION)**

Author: HEIN, SOREN

Degree: PH.D.

Year: 1992

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, BERKELEY (0028)

Source: VOLUME 53/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5360. 282 PAGES

...DSP becomes increasingly prevalent in telephony, audio, video, consumer products etc. The varying demands on **conversion** rate, **resolution** and other characteristics have inspired a large number of competing A/D conversion techniques. This...

...of the imprecision and non-idealities of standard components.

An ONS converter consists of an **encoder** that generates a **high** -rate **low** - **resolution** digital signal, and a decoder that produces a **low** -rate **higher** - **resolution** digital approximation to the analog **encoder** input. The conventional decoding approach is based on linear filtering. Part of this thesis addresses the problem of optimal design of an ONS decoder for a given **encoder** . It is shown that nonlinear decoding can achieve gains in Signal-to-Noise Ratio (SNR...

...are determined numerically.

This thesis also addresses the instability problem that plagues higher-order ONS **encoders** . A new stability concept is introduced that is well-suited to ONS **encoders** , and it is applied to the double-loop **encoder** as well as to the class of interpolative **encoders** . It is shown that there exists a trade-off between stability and SNR performance. Based ...

21/3,K/17 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01467389 20001203049

A solid-state VRX CT detector

DiBianca, FA; Melnyk, R; Sambari, A; Jordan, LM; Laughter, JS; Ping Zou
Sch. of Biomed. Eng., Tennessee Univ., Memphis, TN, USA

Medical Imaging 2000: Physics of Medical Imaging, 13-15 Feb. 2000, San
Diego, CA, USAProceedings of the SPIE - The International Society for
Optical Engineering, v3977, n5, pp205-210, 2000

Document type: Conference paper Language: English

Record type: Abstract

ISSN: 0277-786X

ABSTRACT:

...and digital radiography (DR) is presented. The technique is based on a principle called 'projective **compression** ' that allows the resolution element of a CT detector to scale with the subject or field size. For very **large** (40-50 cm) field sizes, **resolution** exceeding 2 cy/mm is possible and for very **small** fields, microscopy is attainable with **resolution** exceeding 100 cy/mm. Preliminary results from a 576-channel solid-state detector are presented...

DESCRIPTORS: BIOMEDICAL EQUIPMENT; COMPUTED TOMOGRAPHY; DIAGNOSTIC RADIOGRAPHY; IMAGE **CONVERTERS** ; IMAGE **RESOLUTION** ; MEDICAL IMAGE PROCESSING; DIGITAL RADIOGRAPHY; SIGNAL LEVEL; SCINTILLATION DETECTORS

21/3,K/18 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01274158 I99020199300

Characterization of optical signals in fiber-optic Fourier converter

Mouradian, L; Zohrabian, A; Ninoyan, V; Kutuzian, A; Froehly, C; Louradour, F; Barthelemy, A

Dept. of Quantum Electron., Yerevan State Univ., Armenia

Advances in Optical Beam Characterization and Measurements, 14 July 1998, Quebec, Que., CanadaProceedings of the SPIE - The International Society for Optical Engineering, v3418, n6, pp78-85, 1998

Document type: Conference paper Language: English

Record type: Abstract

ISSN: 0277-786X

ABSTRACT:

...the temporal information to the spectral. This performance is implemented in the fiber-optic spectral **compressor** , first stretching and up-chirping the pulses in dispersive delay, and after quenching the induced ...

...accurate quenching of the induced chirp brings to the spectral imaging of pulse temporal profile, **reducing** the problem of the **high - resolution** temporal measurements to the standard spectrometry. The problem of spectroscopy becomes complicated for ultrafast processes because of the **low** temporal **resolution** of electronic oscilloscopes, and often the complex techniques of phase measurements are developed. NOFT with...

...YAG and Ti:sapphire lasers, we shaped the multi-peak pulses, implement the radiation spectral **compression** , and check the given shapes of pulses by means of the spectrometer in order to...

DESCRIPTORS: OPTICAL FIBRES; KERR EFFECT; OPTICAL VARIABLES MEASUREMENT; OPTICAL SIGNAL; FOURIER **TRANSFORMS** ; IMPULSE; MONOMODE OPTICAL FIBRES; TEMPORAL **RESOLUTION** ; PHASE MEASUREMENT; RESPONSE TIME; SILICON OXIDES; FOURIER TRANSFORM OPTICS; HIGH SPEED OPTICAL TECHNIQUE; REAL TIME...

21/3,K/19 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1219430 H.W. WILSON RECORD NUMBER: BAST95014889

Analysis of adaptive imaging algorithms for ultrasonic non-destructive testing

Kazys, R; Svilainis, L

Ultrasonics v. 33 no1 ('95) p. 19-30

DOCUMENT TYPE: Feature Article ISSN: 0041-624X

...ABSTRACT: simultaneously employed to predict the required gain of a computer controlled amplifier. The algorithm allows **compression** of the dynamic range of received ultrasonic signals by exploiting the data obtained in previous...

...gain values, the reduced dynamic range allows high-quality acoustic images to be obtained with **lower resolution high** -speed A/D **converters** . The measurement errors for various gain adjustment methods that were derived from an experimental investigation...

?

23/3,K/1 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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07733414 E.I. No: EIP05489508294

Title: Purification and properties of lipases/esterases from a Bacillus strain for enantioselective resolution of (S)-ketoprofen

Author: **Zhang, Jinhong** ; Guan, Rong; Tan, Zhilei; Yu, Yaoting; Hou, Zhibo; Qi, Zhong; Wang, Shanwei

Corporate Source: Institute for Molecular Biology Nankai University, Tianjin, 300071, China

Source: Artificial Cells, Blood Substitutes, and Immobilization Biotechnology v 33 n 4 2005. p 435-445

Publication Year: 2005

CODEN: ABSBE4 ISSN: 1073-1199

Language: English

Author: **Zhang, Jinhong** ; Guan, Rong; Tan, Zhilei; Yu, Yaoting; Hou, Zhibo; Qi, Zhong; Wang, Shanwei

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)
(c) 2006 JPO & JAPIO
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200630
(c) 2006 Thomson Derwent

Set	Items	Description
S1	1813612	VIDEO?? OR IMAGE??? OR GRAPHIC???
S2	139512	RESOLUTION??
S3	5878	(CONVERT???? OR TRANSFORM???? OR TRANSLAT???? OR CONVERSIO- N?? OR UPGRAD????) (5N)S2
S4	65816	(HIGH OR LARGE??? OR HIGHER) (5N)S2
S5	3269	(INCREASING?? OR BROAD????? OR BOOST??? OR LENGTHEN??? OR - RAIS??? OR EXPAND??? OR MAXIMI????) (5N)S2
S6	10958	(LOW OR LOWER OR LESSER?? OR SMALL???) (5N)S2
S7	8395	(REDUC??? OR DIMINISH???? OR LESSEN???? OR LOWER??? OR MIN- IMIZ????) (5N)S2
S8	52871	(COMPRESS??? OR ENCOD???? OR ENCRYPT???) (5N)S1
S9	30491	COD??? (5N)S1
S10	9555	AU=(ZHANG J? OR ZHANG, J? OR LIU H? OR LIU, H?)
S11	95	S3 AND (S4 OR S5) AND (S6 OR S7) AND (S8 OR S9)
S12	82	S11 NOT AD=20010604:20030512/PR
S13	71	S12 NOT AD=20030512:20060512/PR
S14	67	S13 AND (S4 OR S6)
S15	54	S14 AND S8
S16	2609	(COMPRESS??? OR ENCOD???? OR ENCRYPT??? OR COD????) (2N)DOM- AIN??
S17	0	S3 AND (S4 OR S5) AND (S6 OR S7) AND S16
S18	4	S13 NOT S14
S19	2	S10 AND S3 AND (S4 OR S5)
S20	2	S19 NOT S11

15/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06909002 **Image available**
DEVICE AND METHOD FOR **RESOLUTION CONVERSION** OF ORTHOGONAL IMAGE

PUB. NO.: 2001-136527 [JP 2001136527 A]
PUBLISHED: May 18, 2001 (20010518)
INVENTOR(s): YOSHIO HIROAKI
UENOYAMA TSUTOMU
IWASAKI OSAMU
KOMIYA DAISAKU
YAMADA KAZUNORI
ANDO ATSUSHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 11-317160 [JP 99317160]
FILED: November 08, 1999 (19991108)

DEVICE AND METHOD FOR **RESOLUTION CONVERSION** OF ORTHOGONAL IMAGE

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **resolution converting** device for an orthogonally **transformed images** which can **transform compressed image** of certain **resolution** into **compressed video** of different **resolution** at a **high** speed at orthogonal transformation coefficient level.

SOLUTION: This device comprises a longitudinal and lateral variation...

... which extracts only low-frequency areas of N pieces of orthogonal transformation blocks needed for **resolution conversion** from an orthogonally- **transformed** -image-before-transformation memory 102 stored with an orthogonally **transformed** image before **resolution conversion**, a **resolution converting** means 104 which generates M pieces of orthogonal transformation blocks from the N **low** -frequency orthogonal transformation blocks through **resolution conversion**, and an orthogonal transformation block storage means 105 which stores an orthogonally-transformation-image-after-transformation memory 105 with the M orthogonal transformation blocks after the **resolution conversion**.

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15/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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06797447 **Image available**
DIGITAL CAMERA

PUB. NO.: 2001-024929 [JP 2001024929 A]
PUBLISHED: January 26, 2001 (20010126)
INVENTOR(s): KATAGIRI TAKAHITO
KONISHI KAZUO
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 11-189940 [JP 99189940]
FILED: July 05, 1999 (19990705)

ABSTRACT

...means to the second data bus.

SOLUTION: A light from a lens 101 is photoelectrically **converted** by a **high resolution** imaging device 102 and an output from the imaging element 102 is supplied to a...

...second data bus) 120 with PCI bridge circuits 115 and 116. In this case, a **resolution conversion** processing circuit 114, the JPEG processing circuit 111 and the MPEG 4 processing circuit 112 are connected to the video signal bus 110. Then the still **image** is **compressed** and processed by **high resolution** by a compression processing system being suitable for the still **image** and the animation **image** is **compressed** and processed by **low resolution** by the compression processing system being suitable for the animation image so that image data...

15/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
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06780738 **Image available**

VIDEO SIGNAL HIERARCHIZING/ ENCODING DEVICE AND VIDEO SIGNAL
HIERARCHIZING/DECODING DEVICE

PUB. NO.: 2001-008214 [JP 2001008214 A]
PUBLISHED: January 12, 2001 (20010112)
INVENTOR(s): TAKEUCHI SEIICHI
NISHINO SHOICHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 11-172043 [JP 99172043]
FILED: June 18, 1999 (19990618)

VIDEO SIGNAL HIERARCHIZING/ ENCODING DEVICE AND VIDEO SIGNAL
HIERARCHIZING/DECODING DEVICE

ABSTRACT

PROBLEM TO BE SOLVED: To perform highly efficient hierarchization and **encoding** of a **video** signal by providing only one motion detector by using a detected motion vector in encoding of a differential signal with **high resolution**, when a **video** signal with **low resolution** is **encoded** and including no piece of motion vector information in a second **compressed** stream.

SOLUTION: The inputted **video** signal is outputted by converting it into the video signal with **low resolution** by a first **resolution converter** 101 and is recorded in an image memory 104 as a reference frame video signal...

... a reference frame video signal and reproduced video signal of the reference frame and an **encoded** and decoded reproduced **video** signal of a reference frame. For example, when the inputted signal is defined as 1080p and the video signal with **low resolution converted** by the first **resolution converter** 101 is 720p, the need of reception of both streams is eliminated by imparting no...

15/3,K/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO
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06455668 **Image available**
IMAGE DECODER, BIT STREAM CONVERTER AND PROGRAM RECORDING MEDIUM

PUB. NO.: 2000-041241 [JP 2000041241 A]
PUBLISHED: February 08, 2000 (20000208)
INVENTOR(s): UENO TAKAFUMI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 10-260459 [JP 98260459]
FILED: September 14, 1998 (19980914)
PRIORITY: 10-134862 [JP 98134862], JP (Japan), May 18, 1998 (19980518)

ABSTRACT

PROBLEM TO BE SOLVED: To provide the image decoder that decoder a bit stream with **high resolution** while suppressing increase in a hardware scale.

SOLUTION: The decoder is provided with a 2nd variable length decoding means 2 that applies variable length decoding to a 1st **compressed video** bit stream 1 with 1st space **resolution**, a **resolution conversion** means 3 that applies inverse quantization to a bit stream from the 2nd variable length...

...it so as to convert the bit stream into a bit stream with 2nd space **resolution** with **lower resolution**, a motion vector **conversion** means 6 that converts a 1st motion vector into a 2nd motion vector corresponding to...

... length coding means 4 that applies variable length coding to a bit stream from the **resolution conversion** means 3 to generate a 2nd **compressed video** bit stream 8 by using the 2nd motion vector, a 1st variable length decode means...

...an inverse quantization means 12 and an inverse DCT means 13 that decode the 2nd **compressed video** bit stream 8.

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15/3,K/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
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06389964 **Image available**
HIERARCHICAL **VIDEO** SIGNAL **ENCODER** AND HIERARCHICAL **VIDEO** SIGNAL DECODER

PUB. NO.: 11-331613 [JP 11331613 A]
PUBLISHED: November 30, 1999 (19991130)
INVENTOR(s): TAKEUCHI SEIICHI
 NISHINO SHOICHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 10-138804 [JP 98138804]
FILED: May 20, 1998 (19980520)

HIERARCHICAL **VIDEO** SIGNAL **ENCODER** AND HIERARCHICAL **VIDEO** SIGNAL DECODER

ABSTRACT

PROBLEM TO BE SOLVED: To provide the hierarchical **video** signal **encoder** and the hierarchical **video** signal decoder by which a **high resolution** decoded video signal is obtained with less distortion.

SOLUTION: This device is provided with a **resolution** converter A101 that **converts resolution** of an input **high resolution** signal into a **low resolution** signal, a **video** signal **encoder** A102 that decodes a **low resolution** signal stream obtained by encoding a **low resolution** signal from the **resolution** converter A101 by means of a prescribed **video compression coding** system A to provide an output of a **low resolution** decoded signal, and a **resolution** converter B103 that **converts the resolution** by using a horizontal filter and a vertical filter so as to provide the same **resolution** as that of a **high resolution** signal being an input signal to the **low resolution** decoded signal from the **video** signal **coder** A102 thereby providing an output of a **resolution converted** decoding signal and provides an output of a filter information signal including at least the...

15/3,K/6 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
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06370555 **Image available**
HIGHLY DETAILED IMAGE PROCESSOR AND ITS PROGRAM STORING MEDIUM

PUB. NO.: 11-312173 [JP 11312173 A]
PUBLISHED: November 09, 1999 (19991109)
INVENTOR(s): NOHARA TOSHIHIRO
TOYODA YASUhide
IDA ATSURO
APPLICANT(s): PFU LTD
APPL. NO.: 10-120359 [JP 98120359]
FILED: April 30, 1998 (19980430)

ABSTRACT

... auxiliary storage and which are quickly retrieved and displayed on a computer display.

SOLUTION: A **resolution** **conversion** part 53 **converts** original image data 61 of prescribed **resolution** (maximum **resolution**) which is **higher** than the capacity of the main storage into image data of plural different **resolution** **lower** than the prescribed **resolution** . An image division part 54 divides the **converted** image data of each different **resolutions** into plural rectangular **image** blocks and **compresses** /ciphers each of the dividied **image** blocks. A library generation part 55 stores each of plural divided and **compressed** /ciphred **image** blocks in a prescribed storage device 2, together with the prescribed information.

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15/3,K/7 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
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06320410 **Image available**
DEVICE FOR REPRODUCING VIDEO SIGNAL

PUB. NO.: 11-262009 [JP 11262009 A]
PUBLISHED: September 24, 1999 (19990924)
INVENTOR(s): TAKEUCHI SEIICHI
NISHINO SHOICHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 10-371485 [JP 98371485]
FILED: December 25, 1998 (19981225)
PRIORITY: 2009 [JP 982009], JP (Japan), January 08, 1998 (19980108)

ABSTRACT

... a demodulation data selector 102. When identifying data indicating that both bit streams with a **low resolution** and a **high resolution** are multiplexed and modulated are detected, a switch control signal indicating the separation of both...

...When data are only one bit stream, they are outputted to the side of the **high resolution** bit stream, and also the switch control signal indicating that is outputted. When the control...

... output B of a high efficiency encode 103 to a signal C, through which the **low resolution** is **converted** into the **high** one, and a **high resolution** signal D is outputted. When the control signal indicates the output of only one video signal bit stream, the output of the first high efficiency **encoder** 103 is outputted as a **video** signal A.

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15/3,K/8 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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06320280 **Image available**

ELECTRONIC CAMERA HAVING CONSECUTIVE PHOTOGRAPHING FUNCTION

PUB. NO.: 11-261879 [JP 11261879 A]
PUBLISHED: September 24, 1999 (19990924)
INVENTOR(s): HAYASHI MASAKI
APPLICANT(s): NIKON CORP
APPL. NO.: 10-061013 [JP 9861013]
FILED: March 12, 1998 (19980312)

ABSTRACT

PROBLEM TO BE SOLVED: To increase the consecutive photographing speed by **compressing** an **image** via the setting of a **high** compression rate if the **resolution** is set at a **low** level and converting the **resolution** via the setting of a **low resolution** level if a **high** compression rate is set at the high compression side when the consecutive photographing is performed...

... circuit 15 temporarily stores the image data in a memory 18. Then the circuit 15 **lowers** the **resolution** of the image data stored in the memory 18 regardless of the resolution mode that is previously set and then **compresses** the **image** data at a high **compression** rate regardless of the compression mode that is previously set. Thus, the consecutive photographing speed...

15/3,K/9 (Item 9 from file: 347)

DIALOG(R)File 347:JAPIO
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06058343 **Image available**

MOVING **IMAGE** **ENCODER** AND DECODER AND MOVING **IMAGE** **ENCODING** METHOD
AND DECODING METHOD

PUB. NO.: 10-341443 [JP 10341443 A]
PUBLISHED: December 22, 1998 (19981222)
INVENTOR(s): NAKAGAWA AKIRA
 MORIMATSU EIJI
 MATSUDA KIICHI
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP
 (Japan)
APPL. NO.: 09-149691 [JP 97149691]
FILED: June 06, 1997 (19970606)

MOVING **IMAGE** **ENCODER** AND DECODER AND MOVING **IMAGE** **ENCODING** METHOD
AND DECODING METHOD

ABSTRACT

... area such as a background from being lowered at the time of changeover from a **high resolution** to a **low resolution** relating to moving **image encoder** and decoder and the moving **image encoding** method and decoding method of the devices...

...SOLUTION: A **low resolution** time **high resolution** image updating means 13 **converts** the **resolution** of the images of a corresponding block stored in a **low resolution** image storage means 4 into the **high resolution** and updates the images of the corresponding block stored in a **high resolution** image storage means in the case that an encoded block is processed. In the case...

... block is processed, such updating is not performed. Thus, among the images stored in the **high resolution** image storage means, only the **images** of the **encoded** block with the change of the images are updated and the block for constituting the...

15/3,K/10 (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
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05974402 **Image available**

HIERARCHICAL **IMAGE** **ENCODING** METHOD, HIERARCHICAL **IMAGE** MULTIPLEXING
METHOD, HIERARCHICAL IMAGE DECODING METHOD AND DEVICE THEREFOR

PUB. NO.: 10-257502 [JP 10257502 A]
PUBLISHED: September 25, 1998 (19980925)
INVENTOR(s): TAKAHASHI TOSHIYA
 TAKAHASHI KENICHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company
 or Corporation), JP (Japan)
APPL. NO.: 09-062663 [JP 9762663]
FILED: March 17, 1997 (19970317)

HIERARCHICAL **IMAGE** **ENCODING** METHOD, HIERARCHICAL **IMAGE** MULTIPLEXING
METHOD, HIERARCHICAL IMAGE DECODING METHOD AND DEVICE THEREFOR

ABSTRACT

PROBLEM TO BE SOLVED: To provide an **image encoding** method high in efficiency and simple in configuration by converting an image extending one part of **image data compressed** by a 1st **compression** -encoding means to the resolution of 2nd image having a different resolution, and outputting a ...

...SOLUTION: A switch 19 is provided at a **high - resolution** compression-encoding means 1. When encoding a **high - resolution** intra-frame encoding frame (I frame), the switch 19 is changed over, a difference between the result, for which the **resolution of low - resolution** image is **converted** by a **resolution converting** circuit 3, and a source image is calculated and the frame is encoded later. Concerning the other frame, the **low - resolution** image is not used for prediction. Since pixel density is considerably different between **high - resolution** and **low - resolution** images in general, efficiency is improved in the prediction from the image of timewise different...

...prediction between the images of different resolutions. Therefore, since I frame is predicted from the **low - resolution** image because of no execution of timewise prediction, efficiency is improved rather than the encoding...

15/3,K/11 (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO
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05716646 **Image available**
IMAGE PROCESSING UNIT

PUB. NO.: 09-331446 [JP 9331446 A]
PUBLISHED: December 22, 1997 (19971222)
INVENTOR(s): SUZUKI TAKASHI
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 08-150995 [JP 96150995]
FILED: June 12, 1996 (19960612)

ABSTRACT

...TO BE SOLVED: To realize transmission at an image rate of image data corresponding to **low resolution** regardless of image data corresponding to **high resolution** by applying **compression conversion** to the **image data with high resolution** .

...

... of image data with the highest and lowest resolution and a basic clock of the **image data**. A **compression** section in an I/F unit 113 converts an image rate of image data at

15/3,K/12 (Item 12 from file: 347)
DIALOG(R)File 347:JAPIO
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05600154 **Image available**
IMAGE TRANSMISSION SYSTEM

PUB. NO.: 09-214954 [JP 9214954 A]
PUBLISHED: August 15, 1997 (19970815)

INVENTOR(s): KAMURA YUKARI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 08-014727 [JP 9614727]
FILED: January 31, 1996 (19960131)

ABSTRACT

PROBLEM TO BE SOLVED: To transmit a **high - resolution** input moving image through the use of a low-speed transmission line while switching the image to a **low - resolution** moving image or a **high - resolution** still picture corresponding to selection from the reception side...

...SOLUTION: This system is provided with an encoder part 2 composed of a **resolution converting** filter 11 for defining the **high - resolution** moving image as an input signal and providing the **low - resolution** image from this **high - resolution image**, an **encoder** 12 for **encoding** the output of this converting filter 11, a freezer 13 for freezing the **high - resolution image**, an **encoder** 14 for **encoding** the output of this freezer 13, and a selector 15 for selecting any one of...

... request on the reception side. Thus, even through a low-speed transmission line 106, the **high - resolution** still picture can be transmitted according to the request on the reception side.

15/3,K/13 (Item 13 from file: 347)
DIALOG(R)File 347:JAPIO
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05599974 **Image available**
IMAGE DATA COMPRESSOR

PUB. NO.: 09-214774 [JP 9214774 A]
PUBLISHED: August 15, 1997 (19970815)
INVENTOR(s): NONOMURA JUNICHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 08-013517 [JP 9613517]
FILED: January 30, 1996 (19960130)

IMAGE DATA COMPRESSOR

ABSTRACT

... To improve the processing speed by applying coding only to picture elements not predicted among **high resolution** data and using a **resolution conversion** and predict means to store required picture elements...

...SOLUTION: Register matrices 51, 52 store picture elements required for a **resolution conversion** means 53, predict means 54, 55, an arithmetic coding means 56 among picture elements of **high resolution** and **low resolution** image data. the **resolution conversion** means 53 **converts** a **high resolution** image into an image whose resolution is a half in longitudinal and lateral directions based...

... from other calculation formula and the arithmetic coding means 56 encodes picture elements of the **high resolution** image discriminated to be prediction disable.

15/3,K/14 (Item 14 from file: 347)
DIALOG(R)File 347:JAPIO
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05380663 **Image available**

IMAGE **ENCODING** **DEVICE,** **IMAGE** **DECODING DEVICE,** **IMAGE** **PROCESSOR,**
IMAGE **ENCODING** **METHOD,** **IMAGE** **DECODING METHOD AND** **IMAGE** **OUTPUT**
DEVICE

PUB. NO.: 08-336163 [JP 8336163 A]
PUBLISHED: December 17, 1996 (19961217)
INVENTOR(s): MORI MASASHI
OZURU SHOSUKE
WADA RYUKICHI
SUZUKI FUMIO
KOIZUMI TOSHIO
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 07-124756 [JP 95124756]
FILED: May 24, 1995 (19950524)

IMAGE **ENCODING** **DEVICE,** **IMAGE** **DECODING DEVICE,** **IMAGE** **PROCESSOR,**
IMAGE **ENCODING** **METHOD,** **IMAGE** **DECODING METHOD AND** **IMAGE** **OUTPUT**
DEVICE

ABSTRACT

...CONSTITUTION: A conversion part 100 inputs a RGB signal, performs a color space **conversion** and outputs a **high resolution** luminance component Y(sub h), **low resolution** luminance component Y(sub l) and **low resolution** color difference component U and V. At this time, a DC component extraction part 122...

... A color space conversion part 114 outputs only the luminance component Y(sub h). Thus, **image** information can be effectively **compressed** by neglecting the color difference component of the picture element unit.

15/3,K/15 (Item 15 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

05352193 **Image available**

PAGE PRINTER, ITS **RESOLUTION** **CONVERSION** METHOD AND VARIABLE LENGTH
REVERSIBLE **COMPRESSION** PROCESSING METHOD FOR BINARY **IMAGE**

PUB. NO.: 08-307693 [JP 8307693 A]
PUBLISHED: November 22, 1996 (19961122)
INVENTOR(s): HANIYU YOSHIKI
SHITAMAE MUTSUO
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 07-308912 [JP 95308912]
FILED: November 28, 1995 (19951128)

PAGE PRINTER, ITS **RESOLUTION** **CONVERSION** METHOD AND VARIABLE LENGTH
REVERSIBLE **COMPRESSION** PROCESSING METHOD FOR BINARY **IMAGE**

ABSTRACT

PURPOSE: To attain printing with **high resolution** at a **low** cost by **reducing** a memory capacity of a frame buffer in a page printer...

... interrupter 21 conducts 2nd rasterization into 2nd resolution (300 DPI) and a binary multi- value **conversion** processing section 26 **converts** the **resolution** of the data into the 1st resolution and the resulting data are fed to the...

15/3,K/16 (Item 16 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04823038 **Image available**
VIDEO TRANSMITTER

PUB. NO.: 07-115638 [JP 7115638 A]
PUBLISHED: May 02, 1995 (19950502)
INVENTOR(s): ENARI MASAHIKO
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 05-259770 [JP 93259770]
FILED: October 18, 1993 (19931018)

ABSTRACT

PURPOSE: Not to reproduce a **high - resolution** video signal but to reproduce a **low - resolution** video signal when a cryptographic key is not suitable...

...CONSTITUTION: An analog HD signal 10 is converted to the **encoded** data of a normal-resolution **video** signal by an A/D converter 12, HD/SD conversion circuit 14 and encoder circuit 16. Those code data are **converted** again to **high resolution** by a decoder circuit 18 and an SD/-HD conversion circuit 20. A subtracter 22...
... D converter 12 for each picture element and outputs the subtracted result as an auxiliary **video** signal. An **encoder** circuit 24 **encodes** the output of the subtracter 22, and a ciphering circuit 26 ciphers the output of...

15/3,K/17 (Item 17 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04802966 **Image available**
METHOD AND DEVICE FOR **ENCODING IMAGE**

PUB. NO.: 07-095566 [JP 7095566 A]
PUBLISHED: April 07, 1995 (19950407)
INVENTOR(s): IBARAKI HISASHI
NAKANO YOSHIO
AKIYAMA KENJI
APPLICANT(s): NIPPON TELEG & TELEPH CORP <NTT> [000422] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-235226 [JP 93235226]
FILED: September 21, 1993 (19930921)

METHOD AND DEVICE FOR **ENCODING IMAGE**

ABSTRACT

PURPOSE: To **compress** an **image** signal with high quality by **encoding** the input **image** signal while automatically changing the resolution...

... 230 detects the moving amount of the input image signal and sends it to a **resolution converting** part 210 and an **image encoding** part 220. When the moving amount is large, the input image signal is converted into the image signal of **low resolution** by the **resolution converting** part 210 and when the moving amount is small, the input image signal is converted into the image signal of **high resolution**. The **image encoding** part 220 inputs and **encodes** the **image** signal which **resolution** is **converted**. Thus, the **resolution** of a still picture such as a photograph or a document is improved. Further, concerning the image of **large** motion, the **resolution** is **lowered**, and the motion can be preferentially encoded.

15/3,K/18 (Item 18 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04794703 **Image available**
IMAGE OUTPUT DEVICE

PUB. NO.: 07-087303 [JP 7087303 A]
PUBLISHED: March 31, 1995 (19950331)
INVENTOR(s): ISHIKAWA TAKASHI
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 05-224586 [JP 93224586]
FILED: September 09, 1993 (19930909)

ABSTRACT

... processing without increasing the number of pixels of the input image data when the image **resolution** is **converted** fro the input image data on an image output device...

...CONSTITUTION: An **image** data **compressing** circuit 103 and an **image** data expanding circuit 105 are provided on the precedent and succeeding stages of an image data memory 104 respectively. The image **resolution conversion** processing is carried out before or after the image data are stored in the memory 104 based on a fact whether the image resolution of the input image data is **higher** or **lower** than the image **resolution** of an image output device. When the input image data undergo the primary conversion, this...

15/3,K/19 (Item 19 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04647107 **Image available**
FACSIMILE COMMUNICATION METHOD

PUB. NO.: 06-319007 [JP 6319007 A]
PUBLISHED: November 15, 1994 (19941115)
INVENTOR(s): FUJIWARA YASUSHI
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 06-104984 [JP 94104984]
FILED: April 21, 1994 (19940421)

ABSTRACT

...CONSTITUTION: When the resolution and size of the repeater station are

equal to or **larger** than **resolution** information and size information on stored image information at a transmitting station, the stored information ...

... destination facsimile receiver as it is. The resolution and size of the repeater station are **smaller** than the **resolution** information and size information on the image information at the transmitting station, an image processing...

...temporarily into original image data, which are transferred to the image processing part 6 and **converted** to **resolution** and size matching the receiver. Further, the converted **image** data are **encoded** at an **encoding** and decoding part 7b by an encoding system matching the receiver and sent to the...

15/3,K/20 (Item 20 from file: 347)

DIALOG(R)File 347:JAPIO

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04400792 **Image available**

IMAGE **ENCODING** DEVICE, **IMAGE** REPRODUCING DEVICE AND DISK DEVICE

PUB. NO.: 06-044692 [JP 6044692 A]

PUBLISHED: February 18, 1994 (19940218)

INVENTOR(s): FUKUDA HIDEKI

APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 04-193732 [JP 92193732]

FILED: July 21, 1992 (19920721)

JOURNAL: Section: P, Section No. 1743, Vol. 18, No. 278, Pg. 160, May 26, 1994 (19940526)

IMAGE **ENCODING** DEVICE, **IMAGE** REPRODUCING DEVICE AND DISK DEVICE

ABSTRACT

PURPOSE: To possess interchangeability between a standard image signal and a **high resolution** image signal by providing **conversion** processing means for treating a second image signal whose **resolution** is **lower** than that of a first image signal as a component in a prescribed frequency range...

...CONSTITUTION: A **high resolution** image signal 16 is digitized by an A/D converter 3 and divided into components...

...standard image signal so as to be treated as the LL component 18 of the **high resolution image** signal, is **encoded** in an **encoder** 7 and recorded on a recording medium 9. The recorded signal on the medium 9...

... synthesizing part for frequency range 12. Then, the signal is converted by a D/A **converter** and a **high resolution** reproduced image signal 26 is obtained. Only a LL component 22 is taken out by...

15/3,K/21 (Item 21 from file: 347)

DIALOG(R)File 347:JAPIO

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04352652 **Image available**

IMAGE PROCESSOR

PUB. NO.: 05-344352 [JP 5344352 A]

PUBLISHED: December 24, 1993 (19931224)

INVENTOR(s): NAKAJIMA TOSHIFUMI
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 04-147726 [JP 92147726]
FILED: June 08, 1992 (19920608)
JOURNAL: Section: E, Section No. 1531, Vol. 18, No. 180, Pg. 56, March
28, 1994 (19940328)

ABSTRACT

... processor in which a progressive build-up can be attained at a low cost by **encoding** and transmitting transmission **image** sequentially from an image of a **high resolution** to the image of a **low resolution** .

...

...CONSTITUTION: A CPU 2 stores the image of a 400dpi resolution in an **image encoding** buffer area, **converts** the **resolution** of the image into the image of 200dpi resolution by a hierarchical encoding/decoding LSI 9, and stores it. Next, the CPU 2 encodes the data of 400dpi and 200dpi **resolution** by the LSI 9, **converts** the image of 400-200dpi **resolution** in a transmission buffer by an MO DEM 14, and transmits through an NCU 15 and a line 33. Then, the CPU 2 **converts** the **resolution** of the data of 200dpi into the image of 100dpi resolution by the LSI 9...

... 200dpi and 100dpi resolution through the MODEM 14 and the NCU 15. Afterwards, the transmission **image** is **encoded** and transmitted sequentially from the **image** of the **high resolution** to the image of the **low resolution** in the same way.

15/3,K/22 (Item 22 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

02381987 **Image available**
CHARACTER RECOGNIZING DEVICE

PUB. NO.: 62-298887 [JP 62298887 A]
PUBLISHED: December 25, 1987 (19871225)
INVENTOR(s): KAMI HIROYUKI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 61-143389 [JP 86143389]
FILED: June 18, 1986 (19860618)
JOURNAL: Section: P, Section No. 713, Vol. 12, No. 194, Pg. 7, June
07, 1988 (19880607)

ABSTRACT

PURPOSE: To eliminate the need for a large-capacity **image** storage means and a pressure **compressing** and expanding means by determining the objective range of recognition from a binary image obtained with **low resolution** and inputting a coordinate position within the range and resolution...

...CONSTITUTION: The binary image obtained with the **low resolution** is outputted by a photoelectric **converting** means 2 with a code for selecting the **low resolution** values of four points corresponding to the entire area, and the binary image is stored...

... scanning within the range is inputted from the input means 5, a binary

image with **high resolution** is outputted from the photoelectric converting means 2 and stored in a character string image storage means 7. A character recognizing...

15/3,K/23 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

016374477 **Image available**
WPI Acc No: 2004-532384/200451
XRPX Acc No: N04-421568

Video surveillance system for monitoring exchange of illicit drugs and money, has line scan camera with a sensor producing analog video signal that is converted into digital signal by A/D converter

Patent Assignee: SPECTRUM SAN DIEGO INC (SPEC-N)

Inventor: SMITH S W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6757008	B1	20040629	US 99156556	P	19990929	200451 B
			US 2000669692	A	20000926	

Priority Applications (No Type Date): US 99156556 P 19990929; US 2000669692 A 20000926

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6757008	B1	21	H04N-007/18	Provisional application	US 99156556

Abstract (Basic):

... A/D converter (93). A compressor compresses the digital signal and a memory stores the **compressed** signal. Full-field **images** are selectively recalled from the memory and **converted** to a **lower resolution** for display on a monitor. An operator selects a region-of-interest from a display...

... displayed on the monitor in its full acquired resolution, thereby allowing the operator to view **high - resolution** images of a **large** area under surveillance. The system acquires video data in a spatial and temporal format that...

15/3,K/24 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

016339154 **Image available**
WPI Acc No: 2004-497051/200447
XRPX Acc No: N04-392340

High definition color television image processing method, involves transforming low - resolution term of image to voltage signal, processing signal in receiver, and inverting color subcarrier to recover low - resolution terms

Patent Assignee: UNIV CALIFORNIA (REGC)

Inventor: NICKEL G H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6751256	B1	20040615	US 2000714723	A	20001115	200447 B

Priority Applications (No Type Date): US 2000714723 A 20001115

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 6751256 B1 14 H04N-007/12

High definition color television image processing method, involves transforming low - resolution term of image to voltage signal, processing signal in receiver, and inverting color subcarrier to recover low - resolution terms

Abstract (Basic):

... The method involves quantizing and digitally **encoding** an **image** data in a format having **low - resolution** and **high - resolution** terms. The **low - resolution** term is **transformed** to a voltage signal. The video signal is processed directly in a receiver to invert a color subcarrier modulation to recover the **low - resolution** terms, which are combined with **high - resolution** terms to reconstruct a scene at a high definition format.

... systems committee (NTSC) compatible image communication is done in a single NTSC channel bandwidth. The **image** data is quantized and digitally **encoded** to form digital **image** data in HDTV transmission format. The voltage signal corresponds to a NTSC color subcarrier modulation...

...The **low resolution** data sent in NTSC format is converted into a digital form and combined with the...

15/3,K/25 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

014955998 **Image available**

WPI Acc No: 2003-016512/200301

XRPX Acc No: N03-012431

Video encoder for television, has FIFO that converts high resolution video format in one frequency received from vertical scaler to low resolution video format of another frequency

Patent Assignee: CONEXANT SYSTEMS INC (CONE-N)

Inventor: FELTS B E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020113891	A1	20020822	US 2001777250	A	20010205	200301 B

Priority Applications (No Type Date): US 2001777250 A 20010205

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020113891 A1 12 H04N-007/01

Video encoder for television, has FIFO that converts high resolution video format in one frequency received from vertical scaler to low resolution video format of another frequency

Abstract (Basic):

... A vertical scaler (220) receives **high resolution** video format and outputs **low resolution** video format with same frequency of 75 Hz. A first in-first out (FIFO) (226) receives **low resolution** video format of 75 Hz and outputs **low resolution** video format at a frequency of about 50 Hz.

... 1) **High resolution** video format **conversion** system; and...

...2) **High resolution video format conversion method...**

...Efficiently **converts high resolution** video format having 75 Hz into **low resolution** video format having 50 Hz without loss of video information...

...The figure shows the multi-frequency **video encoder** .

15/3,K/26 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014734371 ****Image available****

WPI Acc No: 2002-555075/200259

Method and device for transmitting video data to terminal having various resolutions

Patent Assignee: M-IMAGE NET (MIMA-N)

Inventor: JUNG J C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002013983	A	20020225	KR 200046289	A	20000810	200259 B

Priority Applications (No Type Date): KR 200046289 A 20000810

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2002013983	A		1 H04N-007/14	

Abstract (Basic):

... and a device for transmitting video data to a terminal are provided to display the **high resolution** video data on a two-level black and white monitor by **encoding** the **video** data in various resolutions.

... A video data transmission method comprises the steps of obtaining **high** resolution bit streams by encoding high **resolution** video data to transmit(41), converting the **high resolution** video data into low **resolution** video data(42), obtaining low **resolution** bit streams by **encoding** the **converted low resolution video** data(43), and transmitting the **high resolution** bit streams and low **resolution** bit streams to a receiver terminal(44). Since **high resolution** video data are transmitted to a low **resolution** terminal after being **converted** into low **resolution** video data, video data are transmitted to terminals of various resolutions...

15/3,K/27 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014560710 ****Image available****

WPI Acc No: 2002-381413/200241

Related WPI Acc No: 2000-160518

XRPX Acc No: N02-298430

Image processor for television, computer monitor, converts encoded

portion of high resolution into decoded portion of low resolution

Patent Assignee: EQUATOR TECHNOLOGIES INC (EQUA-N)

Inventor: CAMPBELL T G; NATARAJAN R

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020009145	A1	20020124	WO 99US13952	A	19990618	200241 B
			US 2000740511	A	20001218	
US 6690836	B2	20040210	WO 99US13952	A	19990618	200413
			US 2000740511	A	20001218	

Priority Applications (No Type Date): US 2000740511 A 20001218; WO 99US13952 A 19990618

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020009145	A1		30	H04N-007/12	CIP of application WO 99US13952
US 6690836	B2			G06K-009/46	CIP of application WO 99US13952

Image processor for television, computer monitor, converts encoded portion of high resolution into decoded portion of low resolution

Abstract (Basic):

... A processing circuit **converts** an encoded portion of **high resolution** version into a decoded portion of **low resolution** version, where the encoded portion is represented by discrete-cosine transform (DCT) values and the...

Technology Focus:

... The decoder decodes the MPEG **encoded image** data.

15/3,K/28 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

014468985 **Image available**

WPI Acc No: 2002-289688/200233

Method and apparatus for down-converting mpeg encoding high quality image sequence to low resolution through memory reduction in decoder loop

Patent Assignee: LG ELECTRONICS INC (GLDS)

Inventor: GIMJINEICHI ; PIMOPEUMAKEU

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001067382	A	20010712	KR 200077013	A	20001215	200233 B

Priority Applications (No Type Date): US 99460645 A 19991215

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2001067382	A		1	H04N-007/24	

Method and apparatus for down-converting mpeg encoding high quality image sequence to low resolution through memory reduction in decoder loop

Abstract (Basic):

... A method and an apparatus for down-converting an MPEG **encoding** high quality **image** sequence to a **low resolution** are provided to **convert** all introduced images before a vertical down sampling process.

15/3,K/29 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

013812920 ****Image available****

WPI Acc No: 2001-297132/200131

XRPX Acc No: N01-213123

Dual mode digital camera extracts stored low resolution image file which is then converted to moving image video sequence, based on moving image data compression specification

Patent Assignee: HEWLETT-PACKARD CO (HEWP)

Inventor: DORON A

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001069392	A	20010316	JP 2000211524	A	20000712	200131 B
GB 2355613	A	20010425	GB 200017717	A	20000719	200131
GB 2355613	B	20031029	GB 200017717	A	20000719	200373

Priority Applications (No Type Date): US 99360419 A 19990723

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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JP 2001069392	A	11	H04N-005/225	
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GB 2355613	A		H04N-001/21	
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GB 2355613	B		H04N-001/21	
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Dual mode digital camera extracts stored low resolution image file which is then converted to moving image video sequence, based on moving image data compression specification

Abstract (Basic):

... A series of **high** and **low resolution** still picture image files is generated, from output of image sensor (18) and are stored in memories (38,44), based on preset still picture **image data compression** specification. Based on preset moving **image data compression** specification, **low resolution image** file is extracted from memory and converted into moving image video sequence, and recorded by...

15/3,K/30 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

013659803 ****Image available****

WPI Acc No: 2001-144015/200115

XRPX Acc No: N01-105662

Image processor e.g. digital copier, has image conversion process unit in printer driver to convert bit map data of high resolution and low gradation into that of low resolution

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000354165	A	20001219	JP 99165931	A	19990611	200115 B

Priority Applications (No Type Date): JP 99165931 A 19990611

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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JP 2000354165	A	6	H04N-001/405	
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Image processor e.g. digital copier, has image conversion process unit in printer driver to convert bit map data of high resolution and low gradation into that of low resolution

Abstract (Basic):

... An image conversion process unit (21) in the printer driver (20), **converts** bit map data of **high resolution** and **low gradation** into bit map data of **low resolution** and **high level** type. A printer language converter generates printing data from the converted bit map data.

... **High resolution** printing process **image** and enhanced **compression** rate of bit map data are obtained. Improved image quality of printing image is obtained

15/3,K/31 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013169349 **Image available**
WPI Acc No: 2000-341222/200030
XRPX Acc No: N00-256297

Decoder forming low - resolution **21 down** converted video from a **high** resolution encoded video **signal**, includes a **run length** decoder, **inverse quantizer**, **low pass filter**, **averaging filter** and a **down sampler**

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI SANGYO KK (MATU); IAQUINTO M (IAQU-I); KIM H (KIMH-I); PHILLIPS L (PHIL-I)

Inventor: IAQUINTO M; KIM H; PHILLIPS L; MIKER A; RARRY F; HEE-YONG K; PHILIPPS L

Number of Countries: 030 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 993198	A2	20000412	EP 99119940	A	19991011	200030 B
JP 2000172237	A	20000623	JP 99290353	A	19991012	200036
CA 2285751	A1	20000409	CA 2285751	A	19991008	200037
CN 1259830	A	20000712	CN 99125988	A	19991009	200054
KR 2000028962	A	20000525	KR 9943663	A	19991009	200110
US 20010055340	A1	20011227	US 98169296	A	19981009	200206
US 6487249	B2	20021126	US 98169296	A	19981009	200281
JP 2004312765	A	20041104	JP 99290353	A	19991012	200472
			JP 2004162602	A	20040531	
JP 3631642	B2	20050323	JP 99290353	A	19991012	200522
CN 1162008	C	20040811	CN 99125988	A	19991009	200626

Priority Applications (No Type Date): US 98169296 A 19981009

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 993198	A2	E	23	H04N-007/26	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2000172237	A		23	G09G-005/00	
CA 2285751	A1	E		H04N-007/01	
CN 1259830	A			H04N-007/50	
KR 2000028962	A			H04N-007/24	
US 20010055340	A1			H04N-007/12	
US 6487249	B2			H04N-007/18	
JP 2004312765	A		23	H04N-007/30	Div ex application JP 99290353
JP 3631642	B2		26	H04N-007/30	Previous Publ. patent JP 2000172237
CN 1162008	C			H04N-007/50	

Decoder forming low - resolution **21 down** converted video from a **high** resolution encoded video **signal**, includes a **run length** decoder, **inverse quantizer**, **low pass filter**, **averaging filter** and a...

Abstract (Basic):

... A **high - resolution** video bit stream is decoded by a variable length decoder (VLD) (210). Discrete cosine transform...
... An INDEPENDENT CLAIM is also included for a method for forming a **low resolution video** signal from an **encoded high - resolution video** signal representing a video image...
...The decoder is used for forming a **low - resolution video** signal from a **high - resolution encoded video** signal...

15/3,K/32 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

013031033 **Image available**
WPI Acc No: 2000-202884/200018
XRPX Acc No: N00-151365

Hierarchical encoding transmission procedure of still picture image in remote medical communication system, involves transmitting encoded images of high resolution followed by low resolution images
Patent Assignee: KOKUSAI DENSHIN DENWA CO LTD (KOKU)
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2000041149 A 20000208 JP 98206741 A 19980722 200018 B
JP 3236821 B2 20011210 JP 98206741 A 19980722 200203

Priority Applications (No Type Date): JP 98206741 A 19980722
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2000041149 A 10 H04N-001/41
JP 3236821 B2 9 H04N-001/41 Previous Publ. patent JP 2000041149

Hierarchical encoding transmission procedure of still picture image in remote medical communication system, involves transmitting encoded images of high resolution followed by low resolution images

Abstract (Basic):

... The original picture image is divided into partial areas.
Resolution conversion is performed for low **resolution images** and are **encoded** . The **high resolution images** are **encoded** directly and are transmitted followed by **encoded low resolution images**.

15/3,K/33 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

012877277 **Image available**
WPI Acc No: 2000-049110/200004
XRPX Acc No: N00-038480

Image block compression and/or encryption system for high definition image processor - performs compression and/or encryption of rectangular image blocks whose resolution is lower than predetermined resolution of original image data.
Patent Assignee: PFU KK (USAE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11312173	A	19991109	JP 98120359	A	19980430	200004 B

Priority Applications (No Type Date): JP 98120359 A 19980430

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11312173	A	15	G06F-017/30	

Image block compression and/or encryption system for high definition image processor...

...performs compression and/or encryption of rectangular image blocks whose resolution is lower than predetermined resolution of original image data.

...Abstract (Basic): NOVELTY - A resolution transducer (53) converts the original image data with resolution larger than main memory capacity, to image data of resolution lower than that of original image data. An image divide unit (54) divides the image data...

...easily without operator interposition. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of high definition image processor. (53) Resolution transducer; (54) Image divide unit; (55) Library generator...

15/3,K/34 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

012841291 **Image available**

WPI Acc No: 2000-013123/200001

XRPX Acc No: N00-010183

Multi resolution image processor for printers for photographs, medical images etc.

Patent Assignee: TERALOGIC INC (TERA-N)

Inventor: CHUI C K; ZHONG L; ZHANG L

Number of Countries: 025 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9953429	A1	19991021	WO 99US8081	A	19990413	200001 B
US 6041143	A	20000321	US 9860398	A	19980414	200021
EP 1072015	A1	20010131	EP 99918517	A	19990413	200108
			WO 99US8081	A	19990413	
JP 2002511686	W	20020416	WO 99US8081	A	19990413	200242
			JP 2000543919	A	19990413	
IL 139005	A	20050831	IL 139005	A	19990413	200561

Priority Applications (No Type Date): US 9860398 A 19980414

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9953429	A1 E	31	G06K-009/36	

Designated States (National): CN IL JP KR RU

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

US 6041143 A G06K-009/36

EP 1072015 A1 E G06K-009/36 Based on patent WO 9953429

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

JP 2002511686 W 32 H04N-001/387 Based on patent WO 9953429

IL 139005 A G06K-009/36 Based on patent WO 9953429

Abstract (Basic):

... for displaying image. Image reconstruction instruction operates on specific image data structure (90) when image **resolution** **lower** than full **resolution** of full image resolution is selected.

... When image **resolution** level **lower** than full **resolution** is selected, image data extraction instruction generates suitable image data structure by extracting subset of...

...For **high resolution** printer used for photograph printing, medical image printing, digital devices like image scanner, camera, DVD...

...Allows efficient storage of image data and generation of intermediate **resolution images**. Wavelet **transform** coefficients are **encoded** using sparse data encoding technique that highly compresses amount of memory used for coefficient storage...

15/3,K/35 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

012286222 **Image available**

WPI Acc No: 1999-092328/199908

XRPX Acc No: N99-068273

Multiplexed resolution image display device for compression system - displays image of high resolution using pixel data generated by partial image generating unit, using pixel group of low resolution level extracted using conditions designated

Patent Assignee: FUJITSU LTD (FUJIT)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10327409	A	19981208	JP 9812181	A	19980126	199908 B
JP 3507685	B2	20040315	JP 9812181	A	19980126	200419

Priority Applications (No Type Date): JP 9772923 A 19970326

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 10327409	A		13	H04N-007/30	
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JP 3507685	B2		14	H04N-007/30	Previous Publ. patent JP 10327409
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Multiplexed resolution image display device for compression system... displays image of high resolution using pixel data generated by partial image generating unit, using pixel group of low resolution level extracted using conditions designated

...Abstract (Basic): The device comprises a condition designation unit (12) for designation conditions for wavelet **conversion** for images displayed on **high resolution** level. Then pixel group of **low resolution** for decompressing pixel data with **high resolution** level included in the conditions, is extracted sequentially...

...Then, a partial image generating unit generates pixel data for wavelet inverse transformation using designated **high resolution** level conditions based on extracted pixel group. Then a **high resolution** image display unit displays image of **high resolution** with generated pixel data...

15/3,K/36 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

012162789 ****Image available****

WPI Acc No: 1998-579701/199849

Related WPI Acc No: 2000-389030

XRPX Acc No: N98-452442

Decoder for HDTV - performs filtering process of sampled pixel values, that are converted from filtered frequency domain video coefficient by performing inverse transformation, to select and delete predetermined sample pixel value

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI SANGYO KK (MATU)

Inventor: EDWIN R M; HEE-YONG K; REN E; KIM H Y; EGAWA R; KIM H; MEYER E R

Number of Countries: 004 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10262252	A	19980929	JP 9861798	A	19980312	199849 B
CN 1203500	A	19981230	CN 98100718	A	19980306	199920
KR 98080157	A	19981125	KR 988190	A	19980312	200004
US 6175592	B1	20010116	US 97815804	A	19970312	200106
CN 1173576	C	20041027	CN 98100718	A	19980306	200615

Priority Applications (No Type Date): US 97815804 A 19970312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10262252	A		29	H04N-007/30	
CN 1203500	A			H04N-007/30	
KR 98080157	A			H04N-007/24	
US 6175592	B1			H04N-007/01	
CN 1173576	C			H04N-007/30	

...Abstract (Basic): The decoder performs the optical frequency domain **conversion** of an **encoded high - resolution video** signal, after which **high - resolution** optical frequency domain video coefficient values. One of the produced **high - resolution** optical frequency domain video coefficient values is selected, received and weighted...

...A down conversion filter forms an optical frequency domain video coefficient by filtering the processed **high - resolution** optical frequency domain video coefficient values. The filtered optical frequency domain video coefficient is received...

...USE - For **converting high - resolution** video signal into **low - resolution** video signal...

...ADVANTAGE - Enables decoding of digital signal using inexpensive **coding** system. Displays **high - resolution video** signal on **low - resolution** display by being **converted** in **low - resolution** video signal...

15/3,K/37 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

012158652 ****Image available****

WPI Acc No: 1998-575564/199849

XRPX Acc No: N98-448736

Hierarchical image encoding method for HDTV, TV - involves generating third image by converting resolution of first image in accordance

with resolution of second image , to compress second image
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC
IND CO LTD (MATU)

Inventor: TAKAHASHI K; TAKAHASHI T

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10257502	A	19980925	JP 9762663	A	19970317	199849 B
US 20010043751	A1	20011122	US 9839491	A	19980316	200176
US 6393152	B2	20020521	US 9839491	A	19980316	200239

Priority Applications (No Type Date): JP 9762663 A 19970317

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10257502	A	17	H04N-007/32	
US 20010043751	A1		G06K-009/36	
US 6393152	B2		G06K-009/36	

Hierarchical image encoding method for HDTV, TV...

...involves generating third image by converting resolution of first image in accordance with resolution of second image , to compress second image

...Abstract (Basic): the first image is changed corresponding to the resolution of the second image by a resolution converter (3) and a corresponding third image is generated. The second image is compressed using the third image as the reference image...

...ADVANTAGE - Improves compression efficiency. Encodes both high and low resolution images using simple technique...

15/3,K/38 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

012036242 **Image available**
WPI Acc No: 1998-453152/199839
XRPX Acc No: N98-354057

Image processing system - has image compressor that converts image data of first resolution to image data of second resolution , such that second resolution is lower than first resolution

Patent Assignee: NESUTO KK (NESU-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10191032	A	19980721	JP 96355544	A	19961224	199839 B

Priority Applications (No Type Date): JP 96355544 A 19961224

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10191032	A	5	H04N-001/387	

... has image compressor that converts image data of first resolution to image data of second resolution , such that second resolution is lower than first resolution

...Abstract (Basic): The system has a high - resolution scanner (3) which reads the document, containing dots, in first resolution . An image compressor converts the image data of first resolution into

image data of second **resolution** , such that second **resolution** is lower than first **resolution** .

...

...A monitor (4) displays the **image** data from the **image compressor** . Preferably, the document is pre-scanned and the image data of third resolution are obtained...

...ADVANTAGE - Dots of image data are not conspicuous since image data from scanner are **converted** into image data of **lower resolution** . Dots are not highlighted since dot density is detected every after pre-scanning process

15/3,K/39 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

011486518 **Image available**
WPI Acc No: 1997-464423/199743
XRPX Acc No: N97-387127

Image data compression appts - distinguishes whether high resolution image is predicticted from low resolution image which was previously obtained from high resolution image

Patent Assignee: TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9214774	A	19970815	JP 9613517	A	19960130	199743 B

Priority Applications (No Type Date): JP 9613517 A 19960130

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9214774	A	5	H04N-001/411	

Image data compression appts...

...distinguishes whether high resolution image is predicticted from low resolution image which was previously obtained from high resolution image

...Abstract (Basic): The appts consists of a transformation unit which transforms high resolution image data to low resolution image data. A prediction unit (55) is provided to distinguish whether high resolution image data is predicted from low resolution image data ...

...is provided to encode the pixel currently not predicted and the pixel is taken among high resolution image data only. Register matrix (51,52) stores pixel information corresponding to high resolution and low resolution image...

15/3,K/40 (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

011080982 **Image available**
WPI Acc No: 1997-058906/199706
Related WPI Acc No: 1997-058890; 1997-058891; 1997-058907; 1997-058908;

1997-058909

XRPX Acc No: N97-048764

**Page printer for information output devices, hard copy output devices
e.g. colour laser beam printer, LED printer, digital copier - includes
resolution converter to modify resolution of data obtained by raster
scanning when predetermined raster scanned data results in unacceptable
volume of compressed data**

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8307693	A	19961122	JP 95308912	A	19951128	199706 B

Priority Applications (No Type Date): JP 9548754 A 19950308

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8307693	A	13	H04N-001/41	

**... includes resolution converter to modify resolution of data
obtained by raster scanning when predetermined raster scanned data
results in unacceptable volume...**

**...Abstract (Basic): predetermined data volume then the raster scanning
device executes the scanning once again using a lower resolution .
The data output by the raster scanning device is processed by a
resolution converter (26) and then it is sent to the page printer...**

**...ADVANTAGE - Prints image with normal resolution even when data
compressor demands higher memory capacity. Improves data processing
efficiency. Executes run length compression of BW image .**

15/3,K/41 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

010540707 **Image available**

WPI Acc No: 1996-037661/199604

XRPX Acc No: N96-031956

**Multiplex-transmission system for transmitting several image and audio
signal on radio - has image audio compression encoder that assigns
control command signal data including camera selection signal to domain
corresp. to frequency band**

Patent Assignee: NIPPON HOSO KYOKAI KK (NIHJ)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7307711	A	19951121	JP 94101090	A	19940516	199604 B
JP 3351898	B2	20021203	JP 94101090	A	19940516	200281

Priority Applications (No Type Date): JP 94101090 A 19940516

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7307711	A	6	H04J-001/16	
JP 3351898	B2	6	H04J-001/16	Previous Publ. patent JP 7307711

**... has image audio compression encoder that assigns control command
signal data including camera selection signal to domain corresp. to
frequency...**

...Abstract (Basic): microphone (10) that produces audio signal. When the transmitting station received the selection signal, an **image audio compression encoder** (12) assigns a digital audio data obtained by a **conversion** unit, to a **low - resolution** data transmitting domain and a **high resolution** component data to a **high - resolution** data transmitting domain. The **high resolution** component data is also obtain by the conversion unit by subtracting it from the video...

...A combination of the **low** and **high resolution** component data in the relay vehicle is carried out by a video-audio decoder to...

15/3,K/42 (Item 20 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

010317109 **Image available**
WPI Acc No: 1995-218372/199529
XRPX Acc No: N95-171155

Image processor for converting low resolution image to higher one - has decoder for decoding gradation information that has undergone resolution conversion

Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7129760	A	19950519	JP 93272709	A	19931029	199529 B

Priority Applications (No Type Date): JP 93272709 A 19931029

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7129760	A	12	G06T-003/40	

Image processor for converting low resolution image to higher one
...

...**has decoder for decoding gradation information that has undergone resolution conversion**

...Abstract (Basic): An original image (101) of a **low resolution** is divided into a number of blocks (103) that consists of pixel M x N...

...A **coding** circuit (105) **codes** the **image** information from a gradation to b gradation (a>b). The **coded image** is stored in a secondary memory (107). A **conversion** circuit (109) **transforms resolution** by vector processing for each gradation information. After the information is decoded (110), coupling is...

...resolution of output of printers which magnify images. Maintains clarity even on edge parts of **low resolution image**. Combines **resolution transformation** with picture **compression**. Shortens transfer time and obtains highest clarity of output unit...

15/3,K/43 (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

010273315 **Image available**
WPI Acc No: 1995-174570/199523

XRPX Acc No: N95-137079

Image encoding method for image signal compression - incorporates resolution conversion part to convert input image signal with high or low resolution based on amount of motion in input image

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7095566	A	19950407	JP 93235226	A	19930921	199523 B

Priority Applications (No Type Date): JP 93235226 A 19930921

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7095566	A		7 H04N-007/24	

Image encoding method for image signal compression - ...

...incorporates resolution conversion part to convert input image signal with high or low resolution based on amount of motion in input image

...Abstract (Basic): The **image encoding** method detects the amount of motion of an input image signal using a detector (230). The output of the detector is supplied to a **resolution conversion** part (210) and an **image encoding** part (220). The **resolution conversion** part **reduces** the **resolution** of the **converted** image signal when amount of motion of the image signal is high. The input image signal is converted into an image signal of **high resolution** when the amount of motion of the image signal is **low**. The image signal with **resolution conversion** is fed to the **image encoding** part where **encoding** is carried out...

...ADVANTAGE - Changes resolution of input **image** signal automatically.
Compresses image signal with good quality...

15/3,K/44 (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

010264676 **Image available**

WPI Acc No: 1995-165931/199522

XRPX Acc No: N95-130446

Image output unit - involves storing of image data directly in memory without resolution conversion , when resolution of input image data is less than that of image output unit

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7087303	A	19950331	JP 93224586	A	19930909	199522 B
JP 3604708	B2	20041222	JP 93224586	A	19930909	200501

Priority Applications (No Type Date): JP 93224586 A 19930909

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7087303	A	6	H04N-001/387	
JP 3604708	B2	5	H04N-001/387	Previous Publ. patent JP 7087303

... involves storing of image data directly in memory without resolution

conversion , when resolution of input image data is less than that of image output unit

...Abstract (Basic): The image output unit includes an image data storing memory (104) provided between an **image data compressing** circuit (103) and an **image data extension** circuit (105). The resolution of an input image data is **reduced** by a **resolution reduction** circuit (102). This data is then compressed by the compression circuit. When the resolution of the **compressed image** data is lesser than that of the image output unit, the input image data is stored in the memory directly without any **resolution conversion** . If the **resolution** of the input image data is more, then it undergoes a **resolution conversion** process either before or after storing it in the memory...

...ADVANTAGE - Enhances effective utilisation of memory. Reduces clarity degradation. **Reduces** compression loss. Provides **high resolution** . **Reduces** amount of memory occupancy. Facilitates usage of surplus memory for other purposes...

15/3,K/45 (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

010081972 **Image available**
WPI Acc No: 1994-349685/199443
XRPX Acc No: N94-274258

Character recognition appts. with low - resolution storage - selects wide range image data for characters stored in high resolution memory w.r.t. narrower range image data for corresp. characters stored in low resolution memory

Patent Assignee: CANON KK (CANO)
Inventor: SUGIYAMA M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5361309	A	19941101	US 90575679	A	19900831	199443 B
			US 92882764	A	19920511	
			US 93173861	A	19931223	

Priority Applications (No Type Date): JP 89230415 A 19890907
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5361309	A	6	G06K-009/20	Cont of application US 90575679
				Cont of application US 92882764

Character recognition appts. with low - resolution storage...

...selects wide range image data for characters stored in high resolution memory w.r.t. narrower range image data for corresp. characters stored in low resolution memory

...Abstract (Basic): The character recognition appts. has a first memory for storing low - resolution image data expanding already stored compressed image data. A second memory stores high - resolution data expanding the already stored compressed image data. An extractor obtains an area in which one character exists from the data in...

...memory to coordinate data in the second memory, and selects from the second memory the high - resolution data corresp. to the converted

coordinate data. A recognition device recognises the selected **high - resolution** data of an image of the selected area in the second memory corresp. to the...

15/3,K/46 (Item 24 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

009880772 **Image available**
WPI Acc No: 1994-160686/199420
XRPX Acc No: N94-126423

Image processing appts. e.g. for facsimile, having reduced number of memories - has encoder for encoding image data read-out from one of two image memories before applying it to image redn. unit after which it is applied to other memory

Patent Assignee: CANON KK (CANO)

Inventor: ANDO T

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 597698	A1	19940518	EP 93308988	A	19931110	199420 B
JP 6225159	A	19940812	JP 93285368	A	19931115	199437
US 5579412	A	19961126	US 93148342	A	19931108	199702
			US 95443387	A	19950517	
EP 597698	B1	19980805	EP 93308988	A	19931110	199835
DE 69320146	E	19980910	DE 620146	A	19931110	199842
			EP 93308988	A	19931110	
JP 3230551	B2	20011119	JP 93285368	A	19931115	200176

Priority Applications (No Type Date): JP 92303861 A 19921113

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 597698	A1	E	18	H04N-001/417	
				Designated States (Regional):	DE FR GB
JP 6225159	A		15	H04N-001/411	
US 5579412	A		14	G06K-009/36	Cont of application US 93148342
EP 597698	B1	E		H04N-001/417	
				Designated States (Regional):	DE FR GB
DE 69320146	E			H04N-001/417	Based on patent EP 597698
JP 3230551	B2		14	H04N-001/413	Previous Publ. patent JP 6225159

... has encoder for encoding image data read-out from one of two image memories before applying it to image redn...

...Abstract (Basic): The image processing appts. has two memories (101,107) for storing image data. A **converter** changes the **resolution** of the data. Image data having a first resolution is read from the first memory (101), is encoded (114) and is **converted** to data having a second **resolution** by an image reduction unit (H3). The second resolution data is stored in the second...

...The data in the second memory is read out, encoded, and **converted** to data of a third **resolution**, after which it is stored in the first memory. The encoder encodes the data before its **resolution** is **reduced**, while referring to data already **reduced** in **resolution**.
...

...according to hierarchical procedure, and by switching input/output relationship of image memories. Accommodates both **high - and low - resolution** images

...Abstract (Equivalent): **conversion** means for **converting** a **resolution** of the image data read from said first storage means and said second storage means to **reduce** the **resolution** of the read image data; and
 ...
 ... **encoding** means for **encoding** the **image** data read from said first storage means and said second storage means...
 ...encoded by said encoding means with reference to the second image data having the second **resolution** from said **conversion** means, and the second image data having the second resolution is stored in said second
 ...
 ...encoded by said encoding means with reference to the third image data having the third **resolution** from said **conversion** means, and the third image data having the third resolution is stored in said first

15/3,K/47 (Item 25 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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009610271 **Image available**
 WPI Acc No: 1993-303819/199338
 XRPX Acc No: N93-233608

Time varying image encoder - uses low definition decoded signal for predictive coding

Patent Assignee: TOSHIBA KK (TOKE)
 Inventor: KIKUCHI Y; ODAKA T; OKU T; UENO H; YAMAGUCHI N
 Number of Countries: 005 Number of Patents: 011
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9318618	A1	19930916	WO 93JP275	A	19930303	199338	B
JP 5308631	A	19931119	JP 92253466	A	19920831	199351	
JP 6205397	A	19940722	JP 92349536	A	19921228	199434	
EP 631444	A1	19941228	EP 93905614	A	19930303	199505	
			WO 93JP275	A	19930303		
US 5418570	A	19950523	WO 93JP275	A	19930303	199526	
			US 93150035	A	19931119		
US 5436665	A	19950725	US 93150035	A	19931119	199535	
			US 93154540	A	19931119		
EP 631444	A4	19950111	EP 93905614	A	19930000	199545	
US 5677735	A	19971014	WO 93JP275	A	19930303	199747	
			US 93150035	A	19931119		
			US 95374911	A	19950119		
EP 631444	B1	19981223	EP 93905614	A	19930303	199904	
			WO 93JP275	A	19930303		
DE 69322769	E	19990204	DE 622769	A	19930303	199911	
			EP 93905614	A	19930303		
			WO 93JP275	A	19930303		
JP 3032088	B2	20000410	JP 92253466	A	19920831	200023	

Priority Applications (No Type Date): JP 92349536 A 19921228; JP 9245678 A 19920303; JP 92253466 A 19920831

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9318618	A1	J	81	H04N-007/137	
					Designated States (National): US
					Designated States (Regional): DE FR GB
JP 3032088	B2		18	H04N-007/32	Previous Publ. patent JP 5308631
JP 6205397	A		19	H04N-007/137	
EP 631444	A1	E	42	H04N-007/137	Based on patent WO 9318618

Designated States (Regional): DE FR GB
 US 5418570 A H04N-007/137 Based on patent WO 9318618
 US 5436665 A 41 H04N-007/50 Cont of application US 93150035
 US 5677735 A 36 H04N-007/32 Div ex application WO 93JP275
 Div ex application US 93150035
 Div ex patent US 5418570
 EP 631444 B1 E H04N-007/24 Based on patent WO 9318618
 Designated States (Regional): DE FR GB
 DE 69322769 E H04N-007/24 Based on patent EP 631444
 Based on patent WO 9318618
 JP 5308631 A H04N-007/137
 EP 631444 A4 H04N-007/137

Time varying image encoder -

...Abstract (Equivalent): coding a **high - resolution** interlaced picture as a frame picture, made of blocks, block by block...

...decoding a coding result obtained by said coding step to obtain a **high - resolution** local decoded signal...

...attaining a **high - resolution** predictive signal from said **high - resolution** local decoded signal...

... **converting** said **high - resolution** interlaced picture to a **low - resolution** picture...

...coding said **low - resolution** picture...

...decoding a coding result obtained by said step of coding said **low - resolution** picture so as to obtain a **low - resolution** local decoded signal...

...up-sampling said **low - resolution** local decoded signal as a **low - resolution** predictive signal; and...

...producing a predictive signal for even and odd lines of said blocks separately, using said **low - resolution** predictive signal and said **high - resolution** predictive signal...

...The motion picture coding apparatus performs predictive coding on a **high - resolution** picture signal and codes a **low - resolution** picture signal obtained by **converting** the **high - resolution** picture signal. One field is thinned out from one frame of a picture by a...

...the other field is down-sampled by a down-sampling circuit (29), thereby forming a **low - resolution** picture...

...A **low - resolution** predictive signal, obtained by up-sampling the **low - resolution** picture by an up-sampling circuit, and a **high - resolution** predictive signal, which is produced from a **high - resolution** picture and corresponds to the thinned-out one field, are alternately combined by a predictor...

...USE - Motion picture **coding** appts for **video** conference or telephone. Digital broadcasting...

...The coding apparatus includes a first coder for coding a **high - resolution** picture as a frame picture composed of blocks. A local decoder decodes a coding from the first coder to obtain a **high - resolution** local decoded signal. A prediction device obtains a **high**

-resolution predictive signal from the **high - resolution** local decoded signal. The **high - resolution** picture is converted to a **low - resolution** picture. A second coder codes the **low - resolution** picture and a second local decoder produces a **low - resolution** local decoded signal. The **low - resolution** decoded signal is up-sampled as a **low - resolution** predictive signal. The up-sampling device supplies a signal obtained by shifting the signal up by...

...a field period. Separate predictive signals are produced for odd and even lines from the **low - resolution** and **high - resolution** predictive signals. Prediction signals are produced by using a weighted sum of the **low - resolution** and **high - resolution** predictive signals

15/3,K/48 (Item 26 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009396199 **Image available**
WPI Acc No: 1993-089673/199311
XRPX Acc No: N95-229979

Image data processor - outputs data of high resolution to display device of low resolution, converts and reduces binary image data of first image memory into multivalued image data, stores multivalued image data in second image memory

Patent Assignee: MATSUSHITA ELEC IND CO LTD (MATU)

Inventor: NANKOU T; YAMASHITA H

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5035863	A	19930212	JP 91187270	A	19910726	199311 B
US 5446831	A	19950829	US 92917348	A	19920723	199540
			US 94239835	A	19940509	

Priority Applications (No Type Date): JP 91187270 A 19910726

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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JP 5035863	A	7	G06F-015/66	
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US 5446831	A	16	G06T-003/40	Cont of application US 92917348
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... outputs data of high resolution to display device of low resolution, converts and reduces binary image data of first image memory into multivalued image data, stores multivalued image data...

...Abstract (Basic): USE/ADVANTAGE - Displays data of document files in PCs, workstation, facsimile data using LCD displays. **Compresses** wide area of **image** data with optional rate, high visibility, outputs multivalued images for different compressions rates at high...

15/3,K/49 (Item 27 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

009004967 **Image available**
WPI Acc No: 1992-132264/199216
XRPX Acc No: N92-098626

Improved scanning procedure for printing coloured photographic film - prescans film frames at low resolution, analyses scene balance, and scans again at high resolution using calibration from scene analysis

Patent Assignee: EASTMAN KODAK CO (EAST)
 Inventor: COSGROVE P A
 Number of Countries: 016 Number of Patents: 008
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9205469	A	19920402	WO 91US6288	A	19910905	199216 B
EP 500904	A1	19920902	EP 91917073	A	19910905	199236
			WO 91US6288	A	19910905	
US 5157482	A	19921020	US 90583420	A	19900917	199245
JP 5502522	W	19930428	JP 91517526	A	19910905	199322
			WO 91US6288	A	19910905	
EP 500904	B1	19960626	EP 91917073	A	19910905	199630
			WO 91US6288	A	19910905	
DE 69120521	E	19960801	DE 620521	A	19910905	199636
			EP 91917073	A	19910905	
			WO 91US6288	A	19910905	
CA 2068739	C	19980915	CA 2068739	A	19910905	199847
JP 3115320	B2	20001204	JP 91517526	A	19910905	200065
			WO 91US6288	A	19910905	

Priority Applications (No Type Date): US 90583420 A 19900917

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9205469	A	E	37		
					Designated States (National): CA JP
					Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE
EP 500904	A1	E	37	G03B-027/53	Based on patent WO 9205469
					Designated States (Regional): DE FR GB IT NL
US 5157482	A		8	H04N-009/11	
JP 5502522	W			G03B-027/80	Based on patent WO 9205469
EP 500904	B1	E	12	G03B-027/53	Based on patent WO 9205469
					Designated States (Regional): DE FR GB IT NL
DE 69120521	E			G03B-027/53	Based on patent EP 500904
					Based on patent WO 9205469
CA 2068739	C			G06T-001/00	
JP 3115320	B2		11	H04N-001/04	Previous Publ. patent JP 5502522
					Based on patent WO 9205469

... prescans film frames at low resolution , analyses scene balance, and scans again at high resolution using calibration from scene analysis

...Abstract (Basic): contg. spliced together multiple short lengths. The full reel is first scanned opto- electronically at low resolution , obtaining scene balance data. This is coded to aid matching with each frame during a second, high resolution scan, from which the image data is digitally encoded and stored for subsequent hard copy printing...

...spaces may be conventionally notch-marked along the edge of the film. In addn. the low resolution scan signal steps, due to the inter-frame spaces, may also be coded along with...

...Abstract (Equivalent): as to effect a first sequential scanning of said plurality of photographic images at a low spatial scanning resolution and thereby producing a plurality of first digitally encoded images ; (b) processing each first digitally encoded image in accordance with a scene balance mechanism for deriving and storing a corresponding scanner calibration...

...as to effect a second sequential rescanning of said plurality of photographic images at a high spatial scanning resolution and

thereby producing a plurality of second digitally **encoded images** ;
 and (d) mapping each second digitally **encoded image** into a memory
 means using a scene balance mechanism calibrated in accordance with
 said corresponding...

...Abstract (Equivalent): number of colour photographic images captured on
 a continuous film strip are pre-scanned at **low resolution** and then
 at **high resolution** by an opto-electronic scanning device and
 processed for storage as digitised images in a...

...translated past the scanner in a first direction to obtain a number of
 first digitally **encoded images** .
 ...

...During **high resolution** rescan, the film strip is **translated** in the
 reverse direction. The **high resolution** imagery data is mapped into
 the memory on the basis of the contents of respective first digitally
encoded images . During the rescan the mapping process is calibrated
 on the basis of information contained on...

...film strip other than the notches, such as detected interframe gaps and
 a correlation of **low resolution** and **high resolution** frame
 'fingerprints

15/3,K/50 (Item 28 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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008475848 **Image available**
 WPI Acc No: 1990-362848/199049
 XRPX Acc No: N90-276879

**High resolution image encoder -decoder using low resolution
 replica - determines whether high resolution pixels composed from
 low resolution pixels are typically predictable or non typically
 predictable**

Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT); AT & T CORP
 (AMTT)

Inventor: CHAMZAS C; DUTTWEILER D L
 Number of Countries: 009 Number of Patents: 009
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 400240	A	19901205	EP 89308258	A	19890815	199049	B
US 4979049	A	19901218	US 89359909	A	19890601	199102	
CA 2014548	A	19901201				199108	
JP 3113967	A	19910515	JP 90140158	A	19900531	199126	
EP 400240	A3	19920325	EP 89308258	A	19890815	199327	
CA 2014548	C	19931130	CA 2014548	A	19900412	199403	
EP 400240	B1	19961120	EP 89308258	A	19890815	199651	
DE 68927477	E	19970102	DE 627477	A	19890815	199706	
			EP 89308258	A	19890815		
KR 9702966	B1	19970313	KR 908084	A	19900601	199935	

Priority Applications (No Type Date): US 89359909 A 19890601

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 400240	A		32		
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Designated States (Regional): DE FR GB IT NL

US 4979049	A		31		
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EP 400240	A3		32		
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EP 400240	B1 E	35	H04N-001/417		
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Designated States (Regional): DE FR GB IT NL
DE 68927477 E H04N-001/417 Based on patent EP 400240
CA 2014548 C G06F-015/66
KR 9702966 B1 H04N-007/24

High resolution image encoder -decoder using low resolution replica...

- ...determines whether high resolution pixels composed from low resolution pixels are typically predictable or non typically predictable
- ...Abstract (Basic): The appts. encodes and decodes in decomposing and recomposing a **high resolution** image. A prediction arrangement determines whether **high resolution** pixels to be recomposed from **low resolution** pixels from a **low resolution** replica of the **high resolution** are so-called typically predictable or non-typically predictable by using general prediction rules...
- ...typically predictable pixels and typically predictable pixels which are identified as exceptions. Exceptions accompany the **low resolution** pixel for which the corresp. **high resolution** pixels would otherwise be improperly recomposed...
- ...Abstract (Equivalent): Apparatus (102) for encoding pixels in the decomposition of a **high resolution** image (I0) into a **low resolution** replica (I1) and supplemental information (SI1) to be transmitted or supplied to storage, including: decomposition processor apparatus (106-1, 106-2 or 106-3) for generating **low resolution** pixels from high **resolution** pixels representative of a **high resolution** image to obtain said **low resolution** replica; and apparatus (109) for interfacing to a transmission medium or storage unit; the apparatus (102) being characterised by the supplemental information being the difference between the original **high resolution** image I0 and the **low resolution** replica I1 required to upgrade the **lower resolution** replica into the **high resolution** image; apparatus (302 via 702, 703, 706) for utilising a first group of said **low resolution** pixels including a current **low resolution** pixel being processed and for utilising a second group of said **high resolution** pixels to determine in accordance with predetermined prediction rules if one or more **high resolution** pixels to be recomposed for said current **low resolution** pixel is non-typically predictable and therefore requires a portion of the supplemental information associated with the one or more **high resolution** pixels to be transmitted along with the current **low resolution** pixel in order to recompose the corresponding **high resolution** pixels, typically predictable and an exception and therefore requires a portion of the supplemental information associated with the one or more **high resolution** pixels to be transmitted along with the current **low resolution** pixel in order to recompose the corresponding **high resolution** pixels, or typically predictable and not an exception and therefore does not require any of the supplemental information to be transmitted in order to recompose the corresponding **high resolution** pixels; apparatus (302 via 706) for generating exception indications (E1) for each current **low resolution** pixel for which said one or more **high resolution** pixels to be recomposed are determined in accordance with the predetermined prediction rules to be...
- ...for generating the portion of the supplemental information (SI1) associated with each of said current **low resolution** pixels for which said one or more **high resolution** pixels to be recomposed is determined in accordance with the predetermined prediction rules to be

...

...of said portion of the supplemental information (SI1), if any, for each of the current **low resolution** pixels...

...Abstract (Equivalent): An arrangement determines whether **high resolution** pixels to be recomposed from **low resolution** pixels from a **low resolution** replica of the **high resolution** are so-called typically predictable or non-typically predictable by using general prediction rules. The general prediction rules are also employed to determine if any of the typically predictable **high resolution** pixels would be improperly recomposed. Such **high resolution** pixels which would be improperly recomposed are identified as exceptions...

...typically predictable pixels and typically predictable pixels which are identified as exceptions. Exceptions accompany the **low resolution** pixel for which the corresponding **high resolution** pixels would otherwise be improperly recomposed...

...ADVANTAGE - More efficient encoding/decoding in decomposing and recomposing a **high resolution** image.

15/3,K/51 (Item 29 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2006 Thomson Derwent. All rts. reserv.

008427423 **Image available**
 WPI Acc No: 1990-314424/199042
 XRPX Acc No: N90-241184

Editing visual images stored in data base - allowing operator editing of low resolution data from hierarchically stored image data and using stored editing data

Patent Assignee: CANON KK (CANO)
 Inventor: HIRABAYASHI Y; KATAYAMA A; HIRABAYASH Y
 Number of Countries: 004 Number of Patents: 005
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 392753	A	19901017	EP 90303709	A	19900406	199042	B
US 5121448	A	19920609	US 90504624	A	19900404	199226	
EP 392753	A3	19920122	EP 90303709	A	19900406	199322	
EP 392753	B1	19970102	EP 90303709	A	19900406	199706	
DE 69029531	E	19970213	DE 629531	A	19900406	199712	
			EP 90303709	A	19900406		

Priority Applications (No Type Date): JP 8990072 A 19890410

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 5121448	A		9	G06K-009/03	
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EP 392753	B1	E	12	H04N-001/387	
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Designated States (Regional): DE FR GB

DE 69029531	E			H04N-001/387	Based on patent EP 392753
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... allowing operator editing of low resolution data from hierarchically stored image data and using stored editing data

...Abstract (Basic): **Low resolution image** data is decoded from hierarchically **encoded** data for **images** to be edited. An operator carries out manual editing on the **low resolution** version of the images, e.g. by using a keyboard and monitor. Data representing the...

...The hierarchically **encoded** original **image** data is now decoded to obtain the original image data, which is edited in accordance

...Abstract (Equivalent): An image editing method for editing image data, comprising the steps of: displaying (804) a **low - resolution** representation of the image to be edited using **low - resolution** data: editing (805) the displayed image interactively in accordance with instructions of an operator by performing transformations on said **low - resolution** image data; storing (806) procedure data defining the transformations instructed by the operator; wherein the image data is received in a hierarchically encoded form and comprises entropy **encoded low resolution image** data and at least one set of entropy encoded difference data, said difference data representing the difference between a **low resolution** image and a **high resolution image**; wherein said entropy **encoded low - resolution** data is decoded to perform said displaying and editing steps; and wherein the method further comprises the steps of reconstructing (807) the **high resolution image** by decoding the **encoded low resolution** data and the encoded difference data, and **transforming** (808) the reconstructed **high resolution** image in accordance with the stored procedure data...

...Abstract (Equivalent): The **image** editing method involves decoding **encoded low - resolution** data representing the original **image**, among the **encoded image** data and performing pre-editing processing on image data representing the **low - resolution** original image obtained. Editing procedure data representing the pre-editing processing is stored. Encoded **high - resolution** data representing the original **image**, among the **encoded** data is decoded. Actual editing processing on the **high - resolution** data is performed in accordance with the editing procedure data stored. The pre-editing processing is performed in accordance with an editing instruction from an operator, and the **low - resolution** data of the original is displayed. USE - For high speed image editing...

15/3,K/52 (Item 30 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008122482

WPI Acc No: 1990-009483/199002

XRPX Acc No: N90-007286

Image coding system for document printer - subjecting binary document image to compression coding, with part of code data of coded image also provided with image for retrieval

Patent Assignee: MITSUBISHI DENKI KK (MITQ)

Inventor: SAITO T; TANAKA A

Number of Countries: 006 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 349677	A	19900110	EP 88120701	A	19881210	199002 B
JP 2015782	A	19900119				199009
US 4972497	A	19901120	US 88280877	A	19881207	199049
EP 349677	B1	19930804	EP 88120701	A	19881210	199331
DE 3882980	G	19930909	DE 3882980	A	19881210	199337
			EP 88120701	A	19881210	

Priority Applications (No Type Date): JP 88164878 A 19880704

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 349677	A	E	17		

Designated States (Regional): DE FR GB NL
EP 349677 B1 E 18 H04N-001/415
Designated States (Regional): DE FR GB NL
DE 3882980 G H04N-001/415 Based on patent EP 349677

Image coding system for document printer...

...subjecting binary document image to compression coding , with part of code data of coded image also provided with image for retrieval

...Abstract (Basic): an image (101) is obtained. The divided n x n meshes (102) are subjected to **resolution conversion** into one dot and a second image (104) is obtained. Meshes with all dots being...

...substituted by the normal pattern and second data (105) expressing the substituted data in sign **codes** is obtained. The second **image** (104) is **coded** in arbitrary **coding** system and third data (106) is . obtained...

...Abstract (Equivalent): **Image coding** method, characterised by...

...a second processing step (300) of performing **resolution conversion** of said meshes (102) into one dot and obtaining a second image (104

...Abstract (Equivalent): The **image coding** method, applicable where document retrieval and printing are compatible, comprises a first step of dividing a first image into n x n meshes, a second processing step of performing **resolution conversion** of the divided n x n meshes into one dot and obtaining a second image...

...and final processing step of decoding the first image from the first data and second **image** . Since a part of **code** data of the **coded image** is also provided with **image** for retrieval, and the first, second, third and final processing steps are executed, document retrieval image decoding processing for a display device (**low resolution** device) requiring **high** speed and image processing for an image printer requiring **resolution** rather than **high** speed are executed in hierarchy. USE/ADVANTAGE - Low quality image can be used in document retrieval or the like at **high** speed without **resolution conversion** .

(

15/3,K/53 (Item 31 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

007914502 **Image available**

WPI Acc No: 1989-179614/198925

XRPX Acc No: N89-137170

Document image processing system e.g. bank checks - includes real-time quality control systems for monitoring quality of image data to detect existence of unacceptable image quality data

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); IBM CORP (IBMC)

Inventor: DINAN R F; DUBIL J F; MALIN J R; RODITE R R; ROHE C F; ROHRER G D

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 320713	A	19890621	EP 88120121	A	19881202	198925 B
US 4888812	A	19891219	US 87134734	A	19871218	199008
EP 320713	A3	19911227	EP 88120121	A	19881202	199250
CA 1314982	C	19930323	CA 601791	A	19890605	199317 N

EP 320713	B1	19940608	EP 88120121	A	19881202	199422
DE 3850066	G	19940714	DE 3850066	A	19881202	199428
			EP 88120121	A	19881202	

Priority Applications (No Type Date): US 87134734 A 19871218; CA 601791 A 19890605

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 320713	A	E	14		
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Designated States (Regional): DE FR GB

US 4888812	A	11			
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EP 320713	B1	E	17	H04N-001/21	
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Designated States (Regional): DE FR GB

DE 3850066	G		H04N-001/21	Based on patent EP 320713
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CA 1314982	C		H04N-001/21	
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...Abstract (Basic): for optically scanning the successive documents and for converting optically perceptible images on it into **video image** data. A data **compressor** (26) is associated with the scanner (20) for receiving and **compressing** the **video image** data obtained from the documents...

...A high speed data channel (30) receives the **compressed video image** data from the **compresser** at a relatively high data transfer rate. A high speed mass data storage device (40) is connected to the high speed data channel for receiving and temporarily storing the **compressed video image** data. A relatively lower speed mass data storage device (54) receives the **compressed video image** data from the high speed data storage device and for storing the **compressed video image** data for subsequent retrieval...

...Abstract (Equivalent): for optically scanning the successive documents and for converting optically perceptible images on it into **video image** data. A data **compressor** (26) is associated with the scanner (20) for receiving and **compressing** the **video image** data obtained from the documents...

...A high speed data channel (30) receives the **compressed video image** data from the **compresser** at a relatively high data transfer rate. A high speed mass data storage device (40) is connected to the high speed data channel for receiving and temporarily storing the **compressed video image** data. A relatively lower speed mass data storage device (54) receives the **compressed video image** data from the high speed data storage device and for storing the **compressed video image** data for subsequent retrieval...

...from said scanner means into digital gray scale video image data of a predetermined first **resolution**, **resolution** reduction means for **reducing** the gray scale video image data to digital gray scale video image data of a second **resolution** lower than said first **resolution**, and thresholding means for **converting** the digital gray scale video image data of said first resolution to black and white video image data of said first resolution, **image data compression** means for receiving and **compressing** the **video image** data from said **image processor** means, said **image data compression** means including means for receiving and **compressing** the lower **resolution** gray scale **video image** data from said image processor means, and means for receiving and **compressing** the higher **resolution** black and white video image data from said image processor means, a high speed data channel (30) for receiving the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution**

black and white **video image** data from said **compression** means at a relatively high data transfer rate, and a high speed mass data storage device (40) connected to said high speed data channel for receiving and storing both the **compressed lower resolution** gray scale **video image** data and the **compressed higher resolution** black and white **video image** data...

...Abstract (Equivalent): documents and converts optically perceptible data on the documents into video image data. The video **image** data from the scanner is **compressed** by data compression techniques and the compressed data is sent over a high speed data...

...g. an optical disk, is connected for receiving at a lower data transfer rate the **compressed video image** data and for storing the video image data for subsequent retrieval...

15/3,K/54 (Item 32 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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004333599
 WPI Acc No: 1985-160477/198527
 XRPX Acc No: N85-121013

Facsimile image processing system - has number of processing devices of different resolutions and central image file or data base

Patent Assignee: IBM CORP (IBM)
 Inventor: HERZOG F J; ITOH M; YANAGISAWA H; YOKEMURA T
 Number of Countries: 007 Number of Patents: 006
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 146728	A	19850703	EP 84113056	A	19841031	198527 B
JP 60148279	A	19850805	JP 83245622	A	19831228	198537
US 4682869	A	19870728	US 84686578	A	19841227	198732
CA 1240789	A	19880816				198837
EP 146728	B	19900411				199015
DE 3481966	G	19900517				199021

Priority Applications (No Type Date): JP 83245622 A 19831228

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 146728	A	E	27		
Designated States (Regional): DE FR GB IT					
EP 146728	B				
Designated States (Regional): DE FR GB IT					

...Abstract (Basic): of the base image to that of the original. The base image is generated by **reducing** stepwise the **resolution** of the original image. The error compensation data is generated by predicting from either a **lower resolution** image, whose **resolution** is **lower** than that of the original image or the base image a **higher resolution** image whose **resolution** in one step **higher** than it, and by **encoding** error between the predicted **image** and an actual **higher resolution** image...

...Abstract (Equivalent): base image to that of said original image, c) said base image is generated by **reducing** stepwise the **resolution** of said original image, d) said error compensation data is generated by predicting from either a **lower resolution** image (LRI) whose **resolution** is **lower** than that of said original image or said base image a **higher resolution** image (HRI) whose **resolution** is one step **higher** than it, and by **encoding** error between the predicted

image and an actual **higher resolution** image, and e) when said original image is to be sent to another selected image...

...Abstract (Equivalent): The system allows communication with input and output devices having varying **resolutions** . It **converts** an **image** into a **compressed** base **image** and successive levels of error correction data to provide an output of the image with...

...corresponding to a different resolution. The first layer is a base layer and contains a **compressed** base **image** (CBI). Its resolution is the lowest. Remaining layers contain error compensation data (ECD), and the **resolution** becomes **higher** as the layer advances...

?

18/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06357284 **Image available**
DECODING DEVICE OF ENCODED IMAGE AND IMAGE DISPLAY DEVICE

PUB. NO.: 11-298892 [JP 11298892 A]
PUBLISHED: October 29, 1999 (19991029)
INVENTOR(s): TOTANI RYOSUKE
KOMI HIRONORI
OKU MASUO
TORIGOE SHINOBU
TANAKA CHIKASHI
HISANAGA MASAACKI
APPLICANT(s): HITACHI LTD
HITACHI ULSI SYSTEMS CO LTD
APPL. NO.: 10-100792 [JP 98100792]
FILED: April 13, 1998 (19980413)

DECODING DEVICE OF ENCODED IMAGE AND IMAGE DISPLAY DEVICE

ABSTRACT

... adder 6 is inputted receives the input of a resolution reduction scale factor from a **resolution conversion** controlling part 13, **reduces** the **resolution** of the decoded image and after that, sends it to a memory I/F 8...

... to a resolution expansion processing part 12. The part 12 receives the input of a **resolution** expansion scale factor, **expands** the resolution of a decoded **image**, restores resolution before an **encoded image** is **encoded** and after that, inputs it to a **resolution conversion** processing part 14. And, the part 14 performs **resolution conversion** processing on an inputted restored image.

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18/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04176167 **Image available**
IMAGE PROCESSOR

PUB. NO.: 05-167867 [JP 5167867 A]
PUBLISHED: July 02, 1993 (19930702)
INVENTOR(s): NAKAMURA TOSHIFUMI
YAMAMOTO SUSUMU
OKABE GEN
APPLICANT(s): FUJI XEROX CO LTD [359761] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-353595 [JP 91353595]
FILED: December 18, 1991 (19911218)
JOURNAL: Section: E, Section No. 1449, Vol. 17, No. 575, Pg. 104,
October 20, 1993 (19931020)

ABSTRACT

... image from being interrupted on the way of a page by using code data whose **resolution** is **lowered** for an output, in the case an expanding

time is larger than a prescribed time...

...CONSTITUTION: Received **code** data is converted to **image** data once by an **expander** of a **resolution converting** part 17, and thereafter, **converted** to the code data again by a compressor by **lowering** the **resolution** by a **resolution converting** circuit and stored in a code storage part 8. Subsequently, when reception of a one...

... is adopted, and in the case the measured time is longer, the data obtained by **lowering** the **resolution** is adopted. A command in this case is transmitted through a signal line from the...

18/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

03259637 **Image available**
OUTPUT CONTROL DEVICE

PUB. NO.: 02-235137 [JP 2235137 A]
PUBLISHED: September 18, 1990 (19900918)
INVENTOR(s): KUBOTA TSUTOMU
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 01-057307 [JP 8957307]
FILED: March 08, 1989 (19890308)
JOURNAL: Section: P, Section No. 1139, Vol. 14, No. 551, Pg. 112,
December 07, 1990 (19901207)

ABSTRACT

PURPOSE: To speed up printing output by **reducing resolution** and **increasing** a processing speed in the case of a sampling output of a printing device having...

... out data successively from the page buffer 105, accesses a font matched with the set **resolution** from a font memory 106, **converts code** data into dot **image** data, and stores the dot image data in a frame memory 107. The data are...

18/3,K/4 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

011657644 **Image available**
WPI Acc No: 1998-074552/199807
XRPX Acc No: N98-059923

Image **data** compression **processing method** - involves quantising and encoding **each image data** from reduced original image data which is **dissolved in several frequency bands** by multiple resolution conversion

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9312845	A	19971202	JP 96129688	A	19960524	199807 B

Priority Applications (No Type Date): JP 96129688 A 19960524
Patent Details:

Image data compression processing method...

...involves quantising and encoding each image data from reduced original image data which is dissolved in several frequency bands by multiple resolution conversion

...Abstract (Basic): The method involves applying a **compression** process to the original **image** data (1) which shows the image whose response is mutually different in the main direction...

...data are dissolved into an image data (4) for several frequency bands by giving multiple **resolution conversion** to the original image data. Each **image** data is quantised (5) and **encoded** (6...

...lost as whole image even when image data in direction where response is low is **reduced** and **converted** to multiple **resolution** since there are more data relating to high-frequency component in sub direction than in main direction. **Compression** rate of **image** data can be increased since data after multiple **resolution conversion** can be **reduced** by **increasing** shrinkage rate. Favorable image can be reproduced since high-frequency data are not lost...

?

20/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016368380

WPI Acc No: 2004-526287/200451

XRPX Acc No: N04-417046

Display data adapter

Patent Assignee: XULI CO LTD (XULI-N)

Inventor: **ZHANG J**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1378133	A	20021106	CN 2001110254	A	20010404	200451 B

Priority Applications (No Type Date): CN 2001110254 A 20010404

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CN 1378133	A	1	G06F-003/14	

Inventor: **ZHANG J**

Abstract (Basic):

... used for a small display unit, such as that in a personal digital assistant, to **convert** displayed document with relatively lower **resolution** into one with relatively **higher resolution** before it is displayed in projector, LCD and other display unit.

20/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013941832

WPI Acc No: 2001-426045/200146

XRPX Acc No: N01-316124

Counter circuit for improving timing accuracy

Patent Assignee: ZHANG J (ZHAN-I)

Inventor: **ZHANG J**

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1158445	A	19970903	CN 96120587	A	19961118	200146 B
CN 1060897	C	20010117	CN 96120587	A	19961118	200474

Priority Applications (No Type Date): CN 96120587 A 19961118

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CN 1158445	A		G04G-003/00	
CN 1060897	C		H03K-023/00	

Inventor: **ZHANG J**

Abstract (Basic):

... and easy integration. It can be used in various time measuring circuit and A/D **converter** for **high speed** and **resolution**.
?

12/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013451065 **Image available**
WPI Acc No: 2000-623008/200060
XRPX Acc No: N00-461814

**Image processing method involves connecting images on computer screen,
based on estimated relation position between input images and focus area
and blur function**

Patent Assignee: RICOH KK (RICO); AOKI S (AOKI-I)

Inventor: AOKI S

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000251060	A	20000914	JP 9956461	A	19990304	200060 B
US 6856708	B1	20050215	US 2000503809	A	20000215	200513
US 20050105823	A1	20050519	US 2000503809	A	20000215	200534
			US 200418336	A	20041221	

Priority Applications (No Type Date): JP 9956461 A 19990304

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000251060	A		11	G06T-001/00	
US 6856708	B1			G06K-009/36	
US 20050105823	A1			G06K-009/00	Cont of application US 2000503809 Cont of patent US 6856708

Abstract (Basic):

... As the image is **not decompressed** , processing time for image
synthesis is **reduced** . **High resolution** bread focus image data
without image quality degradation is obtained...

12/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008791872 **Image available**
WPI Acc No: 1991-295887/199140
XRPX Acc No: N91-226642

**Electronic still imaging apparatus - has digital signal processor for
generating image of resolution lower than predetermined resolution**

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: KUCHTA D W; SUCY P J

Number of Countries: 016 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9114334	A	19910919				199140 B
EP 472699	A	19920304	EP 91906100	A	19910313	199210
JP 4506144	W	19921022	JP 91506217	A	19910313	199249
			WO 91US1663	A	19910313	
US 5164831	A	19921117	US 90494205	A	19900315	199249
EP 472699	B1	19960529	EP 91906100	A	19910313	199626
			WO 91US1663	A	19910313	
DE 69119847	E	19960704	DE 91619847	A	19910313	199632
			EP 91906100	A	19910313	
			WO 91US1663	A	19910313	
JP 3072852	B2	20000807	JP 91506217	A	19910313	200042

				WO 91US1663	A	19910313	
JP 2000295571	A	20001020		JP 91506217	A	19910313	200059
				JP 200060620	A	19910313	
JP 3302671	B2	20020715		JP 91506217	A	19910313	200253
				JP 200060620	A	19910313	
JP 2002344884	A	20021129		JP 200060620	A	19910313	200309
				JP 200264813	A	19910313	
JP 2004248313	A	20040902		JP 200264813	A	19910313	200457
				JP 200496153	A	20040329	
JP 3567155	B2	20040922		JP 200060620	A	19910313	200462
				JP 200264813	A	20020311	

Priority Applications (No Type Date): US 90494205 A 19900315

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing	Notes
WO 9114334	A					
						Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE
EP 472699	A					
						Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE
JP 4506144	W		6	H04N-005/91		Based on patent WO 9114334
US 5164831	A		9	H04N-005/30		
EP 472699	B1 E	12		H04N-001/21		Based on patent WO 9114334
						Designated States (Regional): DE FR GB
DE 69119847	E			H04N-001/21		Based on patent EP 472699
						Based on patent WO 9114334
JP 3072852	B2	10		H04N-005/91		Previous Publ. patent JP 4506144
						Based on patent WO 9114334
JP 2000295571	A		8	H04N-005/91		Div ex application JP 91506217
JP 3302671	B2		8	H04N-005/91		Div ex application JP 91506217
						Previous Publ. patent JP 2000295571
JP 2002344884	A		9	H04N-005/91		Div ex application JP 200060620
JP 2004248313	A		11	H04N-005/92		Div ex application JP 200264813
JP 3567155	B2		11	H04N-005/91		Div ex application JP 200060620
						Previous Publ. patent JP 2002344884

... has digital signal processor for generating image of resolution lower than predetermined resolution

...Abstract (Basic): D converter (16). It also includes a digital signal processor (22) for generating images of resolutions lower than the predetermined resolution .

...

...A file controller (40) generates a multi-format image file representing images of the predetermined resolution and resolutions lower than the predetermined resolution . Devices (22, 26) are provided for storing the image file in a digital memory

...Abstract (Equivalent): for converting the analog image information into digital image signals corresponding to a predetermined picture resolution ; said imaging apparatus characterised by: an image buffer (18) for storing digital image signals corresponding...

...transform coefficient signals and for encoding the transform coefficient signals into a stream of compressed high resolution image signals corresponding to the predetermined picture resolution , said digital processing means (22) further responsive to said digital image signals for generating uncompressed reduced resolution image signals corresponding to a picture resolution lower than said predetermined resolution but containing enough information to provide sufficient quality to identify the subject matter of the...

...means (40) for generating a multi-format image file (Figs. 2A,2B) representative of plural **resolutions** of the still image from the combination of said compressed **high resolution** image signals and said uncompressed **reduced resolution** image signals, said combination forming a singular file structure in which said uncompressed **reduced resolution** image signals occupy a defined file area in relation to said digital image signals and are commonly accessible therewith for transmission, display and processing **without** need for **decompression** ; and means (22,26) for storing the image file in said digital memory (24...

...Title Terms: **RESOLUTION** ;